

UNIVERSITY  
of GUELPH

# Güelph

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John Majorosky, Photographic Services





## The President designate

An introduction to Dr. Brian Segal

Dr. Brian Segal will become the University of Guelph's fifth president and vice-chancellor Sept. 1.

Over the next eight months, he hopes to become familiar with the University and its various constituencies. He will try to spend a number of days a month on campus visiting departments and meeting with as many groups as possible.

"I want to learn as much as I can about the teaching, learning, research and service activities going on at Guelph, and also develop an understanding of the infrastructure and financing of the University," he said in an interview last month with *At Guelph*. "I would like to develop a sense of the aspirations and expectations of students, faculty and staff and an understanding of the various collegial and governing structures which have contributed so much to the University's great progress."

Segal, currently president of Ryerson Polytechnical Institute in Toronto, a position he has held since 1980, said he feels honored to be selected as Guelph's next president, and he looks forward with excitement and optimism to his tenure here.

"The University of Guelph has accomplished so much under the leadership of Burt Matthews and has an incredible amount of talent and an enormous success story to broadcast widely," he said. "While the Guelph story is well known in many sectors, the depth and breadth of the University's activities should be communicated as widely as possible so that the University can be acknowledged as the educational and research leader it is provincially, nationally and internationally."

Segal said the University has many comparative advantages, including its proud heritage in agriculture, food sciences and veterinary medicine, its breadth of teaching and research in the sciences, humanities and social sciences, its beautiful campus, extensive residences, and its incredibly successful private fund-raising campaign. "There is a powerful and dynamic foundation on which to build and move forward."

Commenting on his leadership style, the 44-year-old president designate described himself as people-oriented. "I believe that a University is its people. Everyone counts — students, faculty, staff, alumni and volunteers." He is not known for spending a lot of time writing letters and memos. "I like to consult widely, encourage inventiveness and support creativity and imagination."

He said he is as concerned about the tone, legitimacy and quality of decision-making as he is about the substance of decisions. He believes strongly in the collegial process and views the bicameral system of governing as a strength. A president's role is to bring to the table ideas, diplomacy, persuasiveness, interpersonal and political skills, industriousness and tenacity within the framework of the democratic structures that are fundamental to university decision-making, he said.

"I believe that involvement and participatory democracy are important — as long as they do not lead to participatory paralysis. A university must have a sense that there is focus, movement and leadership. One of the major roles of a president is to interpret the institution back to itself — as well as to the world."

Segal said Guelph appears to him to be a university that has spent much productive effort studying itself and its future directions. He regards *Toward 2000: Challenges and Responses, Aims of the University of Guelph* as a broad, comprehensive document that sets out



Dr. Brian Segal, UofG's fifth president.

solid intellectual, teaching, learning, research and service directions for the University.

"My role is not to come here and rediscover what has already been done," he said, "but to assess where the University is in relation to its aims and objectives and to determine how we collectively wish to balance academic directions within the context of fiscal responsibility."

The president designate said he was attracted to the University because of its good reputation, its diversity of offerings at both the undergraduate and graduate levels, and its strong links with industry, public and voluntary sectors. He finds the University's extensive graduate programs and commitment to research and international development exciting.

"I guess I am an entrepreneur of sorts," he said. "I try to find out how I can provide support and the best environment to enhance the success of those already successful and to encourage and promote development where knowledge, skills and capacity warrant it."

He said he is impressed with the beauty of the

campus and the University's land holdings, which require "continued careful shepherding" because they are so important to the University's future development.

The Montreal-born president designate's academic credentials are in the field of social policy, but his career path has led him into public policy and telecommunications, where he has published widely. Last year he established a reputation as one of Canada's foremost thinkers on the future of post-secondary education and chaired the first national forum on post-secondary education. He sees his strengths in government relations and public affairs as assets to Guelph.

"I believe that we can't fight only for excellence in our own institutions, we've got to change the political culture of the province and the country and change the public agenda, so that excellence is supported not only rhetorically, but financially. We don't just have a responsibility to solve our problems internally, we have to find ways to get governments to react differently to the future of universities, and find ways to get the people of this country to understand that much of their own future is tied to the success of universities."

Segal said he won't have as much time as he would like in his first year at Guelph to be as active as he has been in these areas, but he intends to play a strong role and to represent this University's interests in every national and provincial forum necessary. Segal also said he hopes to teach in the second year of his term.

He is married to Bunny Segal, director of the policy services branch of the provincial Ministry of Citizenship. They have three children: Matthew, 10; Scott, 13; and Jill, 17. They are a family that enjoys downhill and cross-country skiing together, and the president designate also plays squash and tennis.

Although Segal plans to continue living in Toronto, he said he will have a strong presence on campus and in the city of Guelph. Just as he has done in Toronto, he hopes to become involved in Guelph's voluntary sector. He said he will live on campus as work requires, and the family will join him for weekends whenever possible.

"Bunny is very excited about the appointment and looks forward to becoming involved in campus life as her time will permit." □

## Engineering undergraduate competition

UofG will host the ninth annual Ontario Engineering Design Competition (OEDC) for undergraduate engineering students Feb. 26 to 28. The competition provides an opportunity for engineering students to test and develop their skills in problem solving, design and communications. Competitors have four categories to choose from: entrepreneurial or corporate design, editorial or explanatory communications.

Canadian astronaut Marc Garneau will tour the exhibits and speak at the competition.

The entrepreneurial design category challenges students to design a marketable product or service not currently available in Canada. Dan Sheehan, vice-chair of OEDC '88 says one of this year's projects is a Carleton University device designed to prevent crib death by monitoring dissolved oxygen levels in the blood. When the device senses danger, it shakes the crib and wakes the baby.

Competitors in the corporate design category tackle an authentic engineering problem provided by a Canadian industrial corporation. A UofG entry is determining the best location for the new campus arena by looking at the impact of wind and snow conditions between buildings.

The editorial communications division uses case studies to illustrate that engineers have to deal with many, often conflicting criteria. They are frequently caught between the technical solution on the one hand and the welfare of society on the other.

In the explanatory communications division, competitors must explain a technical topic to the public in accurate and understandable terms. "Part of the purpose of the two communications categories is to show engineering students that we are not in an esoteric box," says Kathie Gray, OEDC chair. "We have to communicate with people outside."

Winners in each category take home prize money of \$1,000 for first place, \$750 for second and \$500 for third. The categories are sponsored by Northern Telecom, Ontario Hydro, Bell Canada and General Motors. For the past three years, the top two teams or individual winners from each category of the Ontario division have gone on to compete in the Canadian competition with winners from the three other regions.

Gray and Sheehan, organizers of this year's event, believe the competition is "an excellent place for judges to recruit people they would like to hire, because the students who attend are very bright and very motivated." □

## Letters to the Editor

### Christmas appeal thanks

Three boxes of items for the needy were collected during the third annual UofG Christmas appeal.

All donations were turned over to the Salvation Army to distribute as part of their city-wide Christmas appeal. "Serving with Sympathy and Substance."

Special thanks is extended to Surplus Sales for donating the Christmas box; the University Centre for donating the space and standards; Mike Michalski for doing the signs; the Paint Shop for their effort; Joanne Schnurr for decorating; and to everyone who gave or donated items or time to the appeal.

On behalf of the sponsors — Administrative Services, the Central Student Association and the *Ontario*, thank you. We hope the support and contribution to this effort will continue in the future.

Wayne Michalski  
Co-ordinator, Christmas appeal,  
Administrative Services

## FAX service available

Communications Services now offers a facsimile (FAX) service to the University community. Facsimile machines transmit document images rapidly, accurately and inexpensively over standard telephone lines. Copies of original documents, whether photographs, typed pages, or pencil sketches, are transmitted immediately.

The FAX service is located in Johnston Hall, Room 032. An operator is available to answer questions or assist users in looking up numbers in the FAX directory from 8:30 a.m. to 4:45 p.m., including lunch hour.

Incoming material is received 24 hours a day and stored by the machine. Users will be notified immediately if documents are received during the day, or by 10 a.m. the next business day, if received overnight. Arrangements can then be made for pick up at the FAX office or delivery by campus mail. Outgoing material must be delivered to Johnston Hall, Room 032, with a covering FAX form (available from the FAX office) giving clear sending instructions.

The current price structure is based on a package of one to 10 pages. The cost of incoming and outgoing local packages is \$5. Outgoing long distance packages within North America are \$7 and all other destinations are \$10 a package. To establish a FAX account, departments must forward a coded and signed internal transfer invoice (ITI) listing individuals in the department authorized to send and receive documents.

Communications Services Director Carl Gorman says charges are intended to cover administrative and long distance costs. "We will be reviewing all aspects of the service in February and invite suggestions as to ways it might be improved."

For more information about the service, call the office at Ext. 3299. □





Janet Campbell

John Majorosky, Photographic Services.

## The easiest sales job!

The secret to success is to "use your ears and your mouth in the right proportion," says Janet Campbell, telephone fund raiser extraordinaire. An employee of the University's student telephone campaign, Campbell has received \$329,000 in alumni pledges from 1,900 calls made on behalf of *The Campaign*. Her strategy is to let alumni do the talking. "I ask them to tell me what they're doing and how they like their careers," she says.

Campbell says she feels a bond with most people she calls because they express a strong tie with UofG. And it doesn't hurt, she says, that "I'm talkative." Campbell has been part of the telephone program since it began in September, 1986, and says OAC alumni are among the easiest to talk to. "Maybe it's because I'm from a farm that I found them and their career paths so interesting," she says. Knowing the current market price for soybeans and corn also gives

her something else to talk about.

The callers have just begun contacting graduates of the College of Social Science and Campbell, a fifth semester psychology major, is eager to talk to her predecessors about the kind of jobs they are doing.

She credits *The Campaign* strategy with making her job easier. Alumni receive a letter in advance explaining *The Campaign* and advising them that a student will be telephoning. Because alumni know about the fund-raising campaign, Campbell says she merely has to ask how much they want to give. On one particular evening, Macdonald Institute graduates gave her more than \$15,000, setting a record for the most pledges to a single student in one night. On average, students raise \$1,700 a night.

The job is also easier because Campbell believes in the cause. "I'll probably donate to the Alma Mater Fund faithfully every year because I realize how much the University needs money and how hard it is to raise money." She won't be on campus to see most of *The Campaign* projects completed, but says she wants the University to maintain its reputation for quality. "Maybe my children will come here some day..." she says. O

## Telephone campaign reaches goal

At 9:15 p.m. Nov. 25, *The Campaign's* telephone campaign reached its \$3.85-million target, seven months ahead of schedule. At that point, the student callers had talked to alumni of only five of the seven colleges.

Sue Egles is directing the telephone campaign for IDC Canada Phone/Mail Inc., a fund-raising consulting firm hired to complete this part of the University's \$60-million, five-year campaign. She predicts her student employees will raise well over \$5 million by the June 15, 1988, end of the telephone campaign.

Response from UofG alumni has been overwhelming, Egles says, with 40 per cent of those called making a pledge in excess of \$400. College of Arts alumni wrote the formula for success by contributing \$303,000 — \$53,000 more than the college alumni goal. Graduates of the College of Biological Science were called next and pledged \$430,000. OAC alumni have donated almost \$2 million; HAFS alumni, \$90,000; and Mac/FACS, \$570,000. OVC alumni pledges of more than \$500,000 put the telephone campaign over the top. Students are now making calls to graduates of the College of Social Science and will end the campaign with calls to College of Physical Science alumni.

All UofG graduates who live in North America — more than 42,000 — will be called. Each receives a personalized letter from President Burt Matthews and a second from the volunteer chair of their college campaign prior to the call. The student caller represents a friendly voice

from the University and doesn't try to pressure the alumnus who has decided not to contribute, says Egles. "We want to update alumni files and leave every alumnus with a good feeling about the University."

"Alumni also leave the student caller with a good feeling and often some helpful career advice," says Egles. UofG graduates have some very interesting careers and are excellent sources of information on graduate schools, job openings, and interview procedures. More than one caller has been offered a job over the telephone, she says. In return, alumni often ask the caller to describe how the campus has changed over the years or to pass on a greeting to a favorite professor.

"Despite the informality of the telephone campaign, it's not an easy job," Egles says. She employs a minimum of 25 students at any one time and uses a program of incentives to keep up morale. Callers average \$1,700 in pledges each four-hour evening. Psychology major Janet Campbell holds the record with over \$15,000 pledged in one night and \$329,000 in total pledges (see accompanying story). In second place is FACS student Sheila Hollidge, who has more than \$282,000 in pledges. Both have been with the program since its beginning. Their success and that of other student callers has helped drop the cost of the telephone campaign, says Egles. It costs the University less than 15 cents for every dollar raised. O

## Design cities for four-seasons appeal

Designing cities around the automobile is one of the worst mistakes Canadians have made, Walter Kehm, director of the School of Landscape Architecture says. Like it or not, Canada is a Nordic country that should be designing cities to enhance the winter season, instead of encouraging people to escape it, Kehm says.

When winter brings ice and snow and slush, city traffic creates a real hazard to pedestrians. Crosswalks are located at street corners where traffic flow is heavy and snow plows leave high banks. Kehm points out that large Canadian cities like Montreal and Toronto offer people an alternative — underground malls and walkways — but these areas are hot, crowded and have no natural lighting or ventilation.

Instead of trying to burrow away from winter as if we were moles, Kehm suggests we try to enjoy it by integrating human activity with nature. He points to the Calgary and Baltimore experiments where glassed walkways attached to buildings at the second storey level protect people from traffic, wind and cold, while letting them enjoy the beauty of dancing snowflakes and sun glistening on icicles.

"There is still a need to address our ground level environments, however," Kehm says. "Why is it that hot, arid and humid countries have developed highly distinctive, climatically responsive streets and open space environments?" Whether the need is to protect from the sun or the rain, pedestrian arcades create functional

and esthetically attractive environments and provide a much more appealing entrance for shops and restaurants than underground tunnels, he says. Bern in Switzerland and Bologna in Italy are two cities with ground level pedestrian arcades that have four-season appeal.

In Canada, we need to protect ourselves from the snow and the wind, but we seldom use the arcade or colonnade, Kehm says. (The major outstanding exception is the Hudson's Bay store in Calgary.) Like city streets, our sprawling suburbs lose some of their appeal in winter when snow means shovelling driveways, slippery driving conditions and icy parking lots.

Cities that design only to accommodate automobiles limit their options, says Kehm. Good public transit, skiing, skating and walking trails can make a city more beautiful, more accessible and safer in winter. "In Norway, people ski to work every day and don't worry about traffic jams," he says, and Ottawa's Rideau Canal, "one of the great winter experiences in the world," is used by thousands of families for recreation and for workers as an alternative route downtown.

Not all Canadian cities have a canal, but the lucky ones have an abundance of snow and temperatures low enough to maintain outdoor skating paths and ice formations, Kehm says. Innovative designs in winter landscapes, walkways and transit shelters can help us look forward to the fourth season, says Kehm. O

### At Guelph

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Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified. Stories may be reprinted with acknowledgment of source.

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## Briefly

### Smokebusters

Trying to quit smoking? The wellness promotion task group will help you do it at a smokebusters' clinic starting Jan. 25. The seven sessions will be held over four weeks. Free information session to be held at University Centre, Jan. 18, Room 441, 6 to 7 p.m. Register for the course at the Connection Desk, UC Level 3, or call 836-4444. Cost is \$35.

### Used book sale

The Central Student Association used book sale for this semester will be held Jan. 11 to 14 in the TV lounge, UC Level 0. Books will be received Jan. 5 to 8, and refunds made Jan. 18 to 20 in the same location. Hours of operation all days are 9 a.m. to 5 p.m. Time slots for entry must be picked up on the receiving dates.

### OCUFA Teaching awards

The Ontario Confederation of University Faculty Associations (OCUFA) is calling for submissions for its 1987 teaching awards. These awards recognize outstanding teachers at Ontario universities. Nominations are invited from individuals, informal groups of faculty or students, local faculty associations, faculty or college councils, university committees concerned with teaching and learning, local student councils, departments, alumni, etc. Nominators should consult the nomination guideline available from the UofG Faculty Association office or OCUFA. Nomination deadline is March 31. Letters of nomination and supporting documentation may be sent to OCUFA Committee on Teaching Awards, 40 Sussex Ave., Toronto, Ont. M5S 1J7. The name, address and telephone number of someone who can provide further information should also be included. Inquiries to 416-979-2117.

### Nicaraguan working tours

Short working tours of Nicaragua can be arranged for Canadian, American and European volunteers by teeNICA, a non-profit, non-political agency. For details, contact John Prescott at Ext. 4716, or call teeNICA at 416-694-7775.

### Human Kinetics symposium

Care of trauma victims is the subject of the 18th annual Human Kinetics symposium Jan. 23. Speakers will include a rehabilitation consultant, a psychologist and other professionals in the field. The symposium is a non-profit event organized by the third year School of Human Biology students. Tickets may be purchased from Wilma Frouws, president, Human Kinetics symposium committee, P.O. Box 170-406, University of Guelph, phone 837-0398.



# Senate backs CSA plans for forum on underfunding

Senate has agreed to suspend classes for one hour Jan. 19 so students and faculty can attend a forum organized by the Central Student Association (CSA) on underfunding to universities.

The CSA is joining a Canada-wide effort by the Canadian Federation of Students (CFS) during Student Week, Jan. 18-22, to raise public awareness of the funding inadequacies forced on universities by the federal and provincial governments, student senator Chris Moore told Senate Dec. 15.

The forum will be an open panel discussion, followed by questions, according to Craig Sanderson, vice-president, external, CSA. The student government has contacted Dr. Bill Winegard, MP, Guelph, Rick Ferraro, MPP, Guelph, Lyn Macleod, Minister of Colleges and Universities, and Tony Macerollo, chair of the CFS. The CSA also hopes Dr. Burt Matthews and Paul Fox, chair of the Ontario Council on University Affairs, will participate.

The forum will be held from 11 a.m. to 12 noon in War Memorial Hall.

In other business, Senate approved Board of Undergraduate Studies motions on course additions and deletions to undergraduate programs and received for information a list of undergraduate program committee members for 1987/88.

In Board of Graduate Studies business, Senate received for information additions to provisional

graduate faculty, graduate faculty and associated graduate faculty. They are:

**Provisional graduate faculty** — Donald Trout, assistant professor, Clinical Studies, Donald Rieger, assistant professor, Biomedical Sciences, Elisabeth Daub, assistant professor, Chemistry and Biochemistry, and Michael Nightingale, director, School of Hotel and Food Administration/Consumer Studies.

**Graduate faculty** — Tony Vyn, assistant professor, Crop Science, William King, associate professor, Biomedical Sciences, Alastair Summerlee, associate professor, Biomedical Sciences, Bryan Henry, chair, Chemistry and Biochemistry, and John Pratschke, chair, Consumer Studies.

**Associated graduate faculty** — Harry de Gorter, Cornell University/Agricultural Economics and Business; Len Kass, department of zoology, Maine/Physics; L.F. Szijarto, Central Milk Testing Laboratory/Food Science; G. Huntington, department of agriculture, Beltsville/Animal and Poultry Science; Raj Prasad, Forest Pest Management Institute, Saulte Ste. Marie/Environmental Biology; Darlene Elliott-Faust, director of research, Children's Hospital of Western Ontario/ Psychology; Stephen Safe, college of veterinary medicine, Texas A&M; and Colin Fyfe, department of chemistry, University of British Columbia/ Chemistry and Biochemistry.

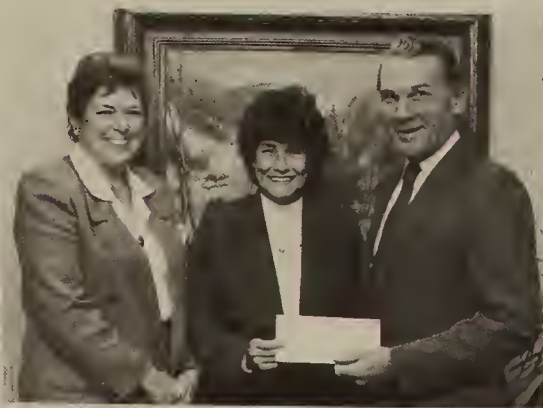
Senate also approved a number of changes to the 1988/89 *Graduate Calendar*.

Two awards were also approved by Senate. They are:

**Tricorp Chemical Specialties Scholarship** — an annual undergraduate award of \$1,200 to be applied toward tuition fees for one or more semesters, tenable with other Senate awards, to a student registered in the winter semester in Semester 5 or 6 of any major honors program administered by the Department of Chemistry and Biochemistry, and who is enrolled in an upper level course in organic chemistry. The award will be made to the student who has obtained the highest cumulative average in two courses in each of biochemistry and organic chemistry. No application is necessary. The selection committee is the CPS Awards Committee on recommendation of the Department of Chemistry and Biochemistry. The donor is the Tricorp Chemical Specialties.

**W.T. Ewen Scholarship** — an annual undergraduate award of \$100, tenable with other Senate awards, to a student who has completed Semester 2 of the Diploma in Agriculture program who has demonstrated leadership ability through contributions to class and college student activities. Application is to the assistant registrar, student awards, by April 1. The selection committee is the OAC Awards Committee. The donor is Class '58 Associates.

Senate received the report *Review of Information Technology Objectives* for information and also reaffirmed the information technology objectives of April 1984. O



Muriel Curtin, Bell Canada's section manager for the Brant district, presents Bell Canada's first installment cheque on a total contribution to The Campaign of \$75,000 to fund a graduate reading

room to President Burt Matthews. Left is Marjorie Millar, director of Alumni Affairs and Development. Herb Rauscher, Photographic Services.

## Bell Canada gift for reading room

Bell Canada has pledged \$75,000 to the University over the next five years to *The Campaign*. Muriel Curtin, Bell Canada's sectional manager of the Brant district, presented the first cheque of \$15,000 to President Burt Matthews on Nov. 30.

The money will be used for a graduate/faculty reading room in the planned environmental biology/horticulture science complex. The new building is to provide classrooms, teaching and research laboratories and office space for the

two departments.

The joint facility is one of several capital projects included in the University's \$60-million fund-raising campaign. "It's important for students to know that corporations are supporting higher education," says Marjorie Millar, director of Alumni Affairs and Development. "This campaign gives us an opportunity to give visual recognition for gifts such as Bell Canada's in the environmental biology/horticulture building."

## Interactive learning via satellite

UofG participated in an international video teleconference Dec. 3. "Update on Interactive Learning: What Businesses, Colleges and Universities are Doing with Satellite-Delivered Learning" came to Guelph live via satellite from New York City, Stillwater, Oklahoma and Chico, California.

Prof. Mark Waldron, Director of the University School of Part-Time Studies and Continuing Education, acted as local sponsor of the conference, which was designed to emphasize the ways interactive media and effective support services can enhance the learning process.

More than 30 Guelph faculty and students signed up for the event, organized in Canada by Sheridan College in Oakville and received at Guelph and several other sites.

Features of the event included case studies and presentations by J.C. Penney and Aetna Life in New York, and a presentation from Oklahoma State on reaching remote learners. Also included were interactive segments with presenters and audio conference breakouts at the program end, which allowed further discussion between experts and participants. O

## Personals

**For Sale:** Three-drawer wood school desk and chair; 185 lbs. of miscellaneous weights and bench press, Ext. 6914 or 824-6875. Men's down-filled jacket and ski suit, each worn twice; children's white skates, size 12 and 13; ladies white skates, size seven; men's skates, size 9; Toyota car mats; royal blue lined drapes; drapery tracks; Melitta coffee maker; child bike carrier, 822-3129; Designer formal gown, size 9-10, worn once, Ext. 8583.

**For Rent:** House for rent to faculty, Sugarbush Estates, 15 minutes from campus, three-bedrooms, single garage, 1600 sq. ft., new deck, \$1,100 a month plus utilities, 822-0701 or 648-2512 after 5 p.m. One-bedroom apartment, University village, fridge and stove, redecorated, available Feb. 1, 1988, \$518 a month plus hydro, 824-7353 after 6 p.m. Four-bedroom house, prime location, includes appliances, available Dec. 30, 1987, references required, \$985 a month plus utilities, 822-1324 after 6 p.m. Four-bedroom house, two four-piece baths and two two-piece baths, family room with fireplace, rec room with sauna, garage, dishwasher, 10 minute walk from University, two minute walk from Stone Road Mall, available Dec. 15, 1987, rent negotiable, 763-9301 or 836-9122. Three-bedroom

house, two storeys with large, fenced back yard, double paved drive, attached garage, available Feb. 1, 1988, \$950 a month, leave message at 763-5506. Furnished four-bedroom house, available Jan. 1, five minute walk to University, large private lot, air-conditioned, wood stove in family room, dishwasher, microwave, \$1,000 a month, 836-2484. Large three and two bedroom apartments in house, walk to University, \$750 and \$500 a month, 824-1733 evenings.

**Wanted:** Two-bedroom apartment in small, quiet building or in a house, 822-7904. Single, responsible person to share four-bedroom house, on cul-de-sac backing on conservation area, available immediately, \$700 a month, leave message at 763-5506. Transportation of a few pieces of furniture by truck or van to Edmonton area, will remunerate, 821-1494. Babysitter in our home three days a week, 856-4475.

**Available:** Angora rabbit, six months old, cage included, free, 824-5148. Will type essays, resumes or do data entry on personal computer, 824-2426. O

**Services available:** Willing to babysit a companion for my 2 year-old daughter. Conroy Crescent. 763-4323.

## Literary competition winners

Winners of UofG's Young Writers' Literary Competition had an opportunity to meet with writer Jean Little when they gathered on campus to collect their prizes. Twenty elementary and high school students met Little, known for her children's stories and recent autobiography *Little by Little*.

Following a reading of each student's work from the 1987 edition of *Focus*, a compilation of the winning entries, Little commented on the poetry and short stories, offering constructive comments and encouragement.

The prize winners, chosen from over 600 entrants, were invited to attend the event along with families, teachers and friends. Winners were Bruce Bradley, Grade 13, Guelph C.V.I.; Jacques D'Abbenigno, Grade 13, Guelph C.V.I.; Adrienne Dandy, Grade 8, Elora Sr. P.S.; Nancy Ferguson, Grade 8, Mount Forest P.S.; Murray Francis, Grade 12, Mount Forest D.H.S.; Martin Garcia, Grade 13, Guelph C.V.I.; Tracey Hunter, Grade 13, Centennial C.V.I.; Rebekah Jamieson, Grade 9, John F. Ross C.V.I.; Melissa Johnson, Grade 9, Centennial C.V.I.; Glen Lee, Grade 13, Guelph C.V.I.; Heather McLeod, Grade 4, Central P.S.; Laurie Meher, Grade 8, Erin D.H.S.; Wayne Officer, Grade 13, Mount Forest D.H.S.; Ken Oke, Grade 12, Mount Forest D.H.S.; Leah Organ, Grade 9, Our Lady of Lourdes; Linda Quirkie, Grade 7, St. Mary, Elora; Bebe Stout, Grade 8, Willow Rd. Sr. P.S.; Eliza To, Grade

10, Guelph C.V.I.; Jennifer Warren, Grade 9, Centre Wellington D.H.S.; Tricia Woo, Grade 12, Centennial C.V.I.

Prof. James Harrison, English Language and Literature, and editor of *Focus* for the past six years, believes the competition is "one of the University's best liaison efforts with the community." And the fact that Little is an area resident is an added benefit to this year's presentation. Little had just returned from a presentation by the government of Ontario for her services to the community when the awards ceremony took place.

The literary competition is divided into two categories: junior and senior poetry and fiction. The junior category encompasses all grades up to grade nine, and the senior category includes grades 10 to 13. The prize for all winners of the competition are five copies of *Focus*.

Of the 300 copies printed each year, some go to the UofG Library, some go out as collections to area schools, and one goes to the national library in Ottawa. "The main readership," according to Harrison, "are the prize winners and their friends."

Judging of the competition is done by Harrison and about three other professors. Most of the time, the poems and stories are printed just as they are, but sometimes, if there is a question, Harrison will phone the student for permission to make a change. O



Now retired Horticulture professor Harold Crawford recently received the Ontario Parks Association (OPA) recognition award for significant contribution to the betterment of parks, the profession, and the environment through his work in the University's continuing education programs. Crawford, left, with President Burt Matthews, has

been a member of the educational committee of the OPA for 14 years. A co-ordinator of the Ontario Diploma in Horticulture program since 1962, Crawford is a UofG graduate who joined the Department of Horticulture in 1958 and became its chair. The ODA program graduated its first students in 1963, and now has some 500 alumni.

Herb Rauscher, Photographic Services.



# Coming events

## WEDNESDAY, Jan. 6

Worship - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.

## THURSDAY, Jan. 7

OAC Agricultural Conferences - "Alternative Enterprises Serving Special Market Needs," 10 a.m. to 3:40 p.m.; "Land Stewardship," 9:45 a.m. to 3:30 p.m., John McCrae Legion, 919 York Rd.

Book Sale Receiving - Receiving for CSA used book sale until Jan. 8, sale Jan. 11 to 14, 9 a.m. to 5 p.m., TV Lounge, UC Level 0.

Worship - Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5.

Guelph Bus Tour - 12:10 to 3 p.m., meet at UC information desk, free.

Volleyball - Victoria at Guelph, men's, 8 p.m., Athletics Centre.

## FRIDAY, Jan. 8

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.

## SATURDAY, Jan. 9

Hockey - Toronto at Guelph, men's, 8 p.m., Memorial Gardens.

## SUNDAY, Jan. 10

Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5; Muslim Students' Association, Lectures on Islam, 10 a.m., UC 332.

## MONDAY, Jan. 11

Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.  
CSA Used Book Sale - until Jan. 14, 9 a.m. to 5 p.m., UC Level 0.

## TUESDAY, Jan. 12

Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5.

OAC Agricultural Conferences - "Field Crop Research Update for Agribusiness Personnel," 10 a.m. to 3:20 p.m., John McCrae Legion, 919 York Rd.; For further information, call Ext. 3933.

Physics Colloquium - "A Novel Theory for Coherence Transport with Applications to Laser Spectroscopy," Prof. Roger Herman, Pennsylvania State University, 4 p.m., MacNaughton 113.

Seminar - "Fibre Optics in Agricultural Research," Prof. H.J. Swatland, 12:10, Animal/Poultry Science 141.

Hockey - York at Guelph, men's, 7:30 p.m., Memorial Gardens.

## WEDNESDAY, Jan. 13

Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.

## THURSDAY, Jan. 14

Worship - Meet and Eat, noon to 2 p.m., UC 335; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC level 5.

## FRIDAY, Jan. 15

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.

## SUNDAY, Jan. 17

Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Service, 10:30, UC 103; Muslim Students' Association Lectures on Islam, 10 a.m., UC 332.  
Basketball - Laurier at Guelph, women's, 6 p.m., men's 8 p.m., Athletics Centre.

## MONDAY, Jan. 18

Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, Jan. 19

Worship - Roman Catholic Mass, 12:10 p.m., UC chapel level 5.

OVC Drug Day - 1 to 3 p.m. fourth year students, clinicians and faculty, 3 to 5 p.m. entire college welcome, Equine Admissions Area and Lunging Ring.  
Hockey - Western at Guelph, men's, 7:30 p.m., Memorial Gardens.

## WEDNESDAY, Jan. 20

Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.



The University of Guelph Staff Association recently elected its new executive. Standing, left to right, Steven Struger, Horticulture, treasurer; Robin McCutcheon, Microbiology, recording secretary; Jennifer Reader, Chemistry and Biochemistry, chief representative, and Alan Miller, School of

Engineering, first vice-president. Seated, left to right, Lloyd Cummins, Maintenance, past-president; Mary Ann Robinson, Printing Services, president; and Sheila Trainer, Zoology, second vice-president.

Herb Rauscher, Illustration Services

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UNIVERSITY  
of GUELPH

Guelph

Volume 32 Number 2

January 13, 1988



Twin lambs "Mutton" and "Jeff" began life as the same embryo, but were microsurgically bisected six days after conception. Last month, they and seven other lambs became the first animals born at U of G from bisected embryos (see story, page

1.) Above, project leader Dr. Cathy Gartley nuzzles the identical twins under the watchful eye of their surrogate mother, "U2".

Photo by Owen Roberts, Office of Research.





## Major provincial award boosts hormone research

The largest University Research Incentive Fund (URIF) award ever directed to U of G has been announced by the Ontario Ministry of Colleges and Universities.

Profs. John Burton and Brian McBride of the Department of Animal and Poultry Science will receive \$400,000 to examine the effectiveness of the hormone bovine somatotropin (BST) in increasing milk production in dairy cows, as well as any other effects of the agent.

The three-year award matches a series of contracts between the University and Cyanamid Canada Inc. of Toronto, partners in the research.

BST can increase milk production by up to 20 per cent. This could benefit the dairy industry by allowing farmers to reduce their herd size, while maintaining the same level of production. Burton says continual research is necessary to determine if the hormone has any residual effects on animals or humans; it must be proven that there are none before the hormone can be mass produced and marketed. To date, no effects have been established.

The two researchers began studying BST three years ago. "With this funding we can expand our research into areas that are important to both the agriculture industry and to consumers," says Burton. Adds McBride: "The fundamental support of the URIF award allows us to confirm the full safety of this product."

The award will be used to update and equip an analytical laboratory in Animal and Poultry Science and to hire a post-doctoral fellow and a PhD student to assist in the studies. "One of our objectives is to develop analytical techniques that will be available for government and industry use as well as our own," says Burton.

The researchers' URIF application was co-ordinated by Industrial and Innovation Services, Office of Research.

URIF supports joint ventures in short-term university contract research between academic and private sector partners by matching eligible corporate contributions. It is designed to encourage universities and industry to enter into co-operative research ventures.

U of G has been the recipient of three other URIF awards:

- Prof. Bob Chapman, Mathematics and Statistics, was awarded \$75,000 last summer to continue work on a computer model of a portion of the assembly line at General Motors' robotized car plant, with equal funds coming from the company;
- Domtar Inc. matched a \$32,000 URIF award to Profs. Tom Bates and Les Evans, Land Resource Science, and Glen Lumis, Horticultural Science, to evaluate the effect of selected salt-based de-icers on turfgrass and shrubs; and
- A \$25,106 award, matched by Cold Springs Farm of Thamesford, went to Profs. Scott McEwen, Population Medicine, Shai Barbut, Food Science, and Dick Julian, Pathology, to study the prevention of downgrading and condemnation losses in turkeys at the company's processing plants. ○

## Chretien here for lecture on country's future

One of Canada's most prominent former politicians, Jean Chretien, will be on campus Jan. 20 to give a lecture on "The Future of Canada." The lecture, at 8 p.m. in War Memorial Hall, is sponsored by the University Centre and the Central Student Association in co-operation with *The Daily Mercury*.

Now a private citizen practising law, Chretien was first elected to the House of Commons in 1963. He has been a representative of the Liberal party for 23 years. During his 17 years as a cabinet minister under Pierre Trudeau, Chretien held every major cabinet portfolio, including minister of national revenue, minister of justice and minister of industry, trade and commerce.

Chretien was Canada's first francophone minister of finance, and as minister of Indian affairs and northern development, he created 10 new national parks, more than twice as many as had been created in the previous half-century. In 1980, he led the fight against separation, and organized the federal referendum campaign in Quebec. He was also entrusted with the task of negotiating a new Canadian constitution with the provinces.

In 1984, Chretien lost the Liberal leadership race to John Turner, and two years later, he resigned from politics. Last year, his best-selling book, *Straight from the Heart*, was published.

Tickets, at \$6 for students and seniors and \$8.50 general, are available at the UC box office. There is a handling charge of 50 cents

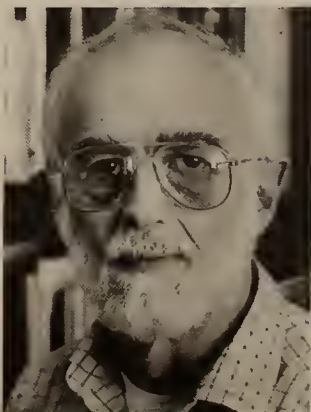


Jean Chretien

for each ticket.

For more information, call Anita McManamna, UC administration, Ext. 2896. ○

## Leading cancer researcher to deliver first Chappel lecture



Dr. Rubin.

A noted medical scientist in cancer research will deliver the inaugural address in a new lecture series on campus — the Chappel Lecture in Biomedical Sciences. Dr. Harry Rubin will speak Feb. 4, on the eve of winter convocation ceremonies, during which he will receive an honorary doctor of science degree.

The Chappel Lecture in Biomedical Sciences will be an annual event on campus, bringing scholars of international repute to address members of the student body, the faculty and the general public. It has been established by Dr. and Mrs. Clifford I. Chappel in memory of his father, Herbert James Chappel, and is hosted in its inaugural year by OVC.

Rubin began his work in the area of viruses as a veterinarian in Mexico. He later joined the U.S. Public Health Service, became senior research fellow at the California Institute of Technology and has held several research positions at the University of California, Berkeley, where he is now professor of molecular biology and research virologist. He is known for his contributions in the area of cell growth regulation and malignancy.

Rubin will also discuss popular theories on cancer-causing genes the same day at 8 p.m. in a lecture in Macdonald Hall. The lecture is free and open to the public. ○

## Big ewes!

U of G delivers first bisected embryo twins

by Owen Roberts

Three sets of genetically identical lambs are the first animals born from bisected embryos at the University.

Last month six surrogate ewes delivered nine lambs — three sets of twins and three singles — that had developed from embryos microscopically bisected and implanted five months earlier.

Project leader Dr. Cathy Gartley, now completing a D.V.Sc. degree in the Department of Clinical Studies, says the accomplishment is a milestone for the University.

"I find it exciting that these are the first genetically identical animals created and born at the University of Guelph," she says. "They represent the first of many such twins in several species that University researchers hope to soon realize."

The project started when Gartley, project supervisor Dr. Walter Johnson, Dr. Rick Rorie of the Animal Biotechnology Centre and Dr. Brian Buckrell, OVC sheep and goat research co-ordinator, microscopically bisected nine six-day-old sheep embryos extracted from three ewes. At this stage of their development, the embryos are visible only through magnification. The embryo pairs were then surgically implanted into nine recipient ewes.

Pregnancies developed in six ewes. Three ewes carried twins, while the other three carried singles for a total of nine lambs.

Nine lambs from nine embryos "gives us a lambing rate of 100 per cent," says Buckrell. "With normal embryo transfer — transplanting a whole embryo, rather than a bisected pair — you realize about a 60-per-cent rate. Bisection

appears to be an efficient way to use embryos."

Besides maximizing embryo use, this project highlights the potential to create significant numbers of genetically identical animals that are vital for consistent research results.

"Genetic variations between animals of the same species can result in greatly varying research results," says Buckrell, "so researchers need to conduct tests on many more animals before they reach scientific conclusions. However, in identical animals, the genetic variations are eliminated, meaning appreciably fewer animals are needed for the same experiments."

Gartley's project is supported by funding from the Ontario Ministry of Agriculture and Food and the Eleanor Gartshore Memorial Sheep Trust.

Buckrell says embryo bisection knowledge will be enhanced by the creation of sheep research facilities at the new OMAF-funded \$5.4-million Ponsonby Research Station north of Guelph. The sheep research component of the unique five-phase station is scheduled for completion this summer. ○

## Appointments

Dr. Steven Stewart of the department of biology at McGill University will join the Department of Botany July 1 as assistant professor in an already established position.

Dr. Karen Acheson of Belwood has joined Medical Services as physician. ○



# COMMTECH '88 — out of the lab and into the marketplace

The Office of Research's Industrial and Innovation Services (I&IS) has organized a seminar series on how to get new ideas, products and processes from the laboratory to the marketplace. "Commtech '88" begins Jan. 25 and is open to faculty, staff and students.

The lectures will be given by Ron Dolynchuk, director of I&IS, Chris Ostrovski, technology development officer, and Joe Irvine, business development officer. Each seminar will be followed by a videotape from the TVOntario series "Front Runners," about starting your own business. There will also be plenty of opportunity for discussion.

The first session Jan. 25 will deal with "Turning Ideas into Dollars." Participants will examine the business of commercializing new technologies and technology transfer at the university-industry interface. Videotapes will feature the Kettle Creek Canvas Company and the Three Buoys Houseboat Vacations Ltd.

At the second seminar Feb. 1, the topic will be "The Protection of Intellectual Property." Participants will learn about patents, copyright, know-how, trade secrets and the University's inventions policy. Videotapes will feature Oliver's Old-Fashioned Bakery and Dynatech Mining Ltd.

"New Product Development and Commercial Exploitation" is the subject of the Feb. 8 meeting. Topics will include evaluating technologies for commercial potential, the new product development process and the realities of financing and other commercial forces. Videotapes focus on Colors and Kakabeka Timber.

The Feb. 15 meeting will discuss "Cashing in Your Chips" — what to expect from the sale of licensing of your invention, what commercialization options are available and the role of I&IS in commercializing University-based technologies. Annick Press will be the videotape presentation.

"Personalities and Profits" is the Feb. 22 topic. Participants will learn about the roles of inventors, innovators, entrepreneurs and managers in technology development, and explore how personal talents, characteristics and motivation define roles. The videotape will be on Chart Industries.

The last seminar March 1 is "New Venture Formation: Building a Growth Company." Participants will discuss how and why new ventures are launched and by whom, and explore such questions as: Is this a career option for you? and Can entrepreneurship and academe mix? The videotape will be "Front Runners — Start your Own Business." The seminar series is free, with sessions running from 4 to 6:30 p.m. in the University Centre. Register by calling Ext. 3429. O

# Environmental Biology, Family Studies programs get top marks from OCGS

Graduate programs in OAC and the College of Family and Consumer Studies have received top marks from the Ontario Council on Graduate Studies (OCGS).

The council has accepted recommendations from OCGS appraisals committees that the M.Sc. and Ph.D. programs in the Department of Environmental Biology, the M.Sc. and Ph.D. programs in applied human nutrition and the M.Sc. program in family studies in the Department of Family Studies be placed in category "a."

The graduate programs in environmental biology were placed in category "b" following a 1983/84 appraisal. At that time, the future quality of the program was in question because of concern that a serious space problem would worsen, says Graduate Studies Dean Doug Ormrod. There were also concerns about communication with graduate students and uncertainty about the role of the Canadian Centre for Toxicology.

A progress report, prepared by the department in early 1987, indicated that new space had been made available, space in existing buildings had been upgraded and that a new building had been authorized, says Ormrod. It also described progress that had been made in improving other dimensions of graduate studies in the department, including increased communication and access to new equipment.

"The short-term improvements and promising long-term developments resulted in the coveted 'a' classification," says Ormrod.

The periodic appraisal of the M.Sc. and Ph.D. programs in applied human nutrition and the M.Sc. program in family studies included visits by three OCGS-appointed consultants — Graham Spanier, academic vice-president of Oregon State University; Daniel Perlman, director of the school of family and nutritional sciences at the University of British Columbia; and Helen Smieciak-Wright, professor of nutrition at Pennsylvania State University. The consultants' reports were extensive and detailed, says Ormrod.

The Department of Family Studies' response to the reports addressed the consultants' concerns and suggestions to the satisfaction of the appraisals committee and also drew special attention to the department's plans to initiate a proposed Ph.D. program in family relations and human development — a development encouraged by each of the consultants, says Ormrod. O

# Campus Canada

Simon Fraser University will open a new educational centre in downtown Vancouver by the fall of 1988. More than 20,000 full- and part-time students are expected to enrol each year at the facility, to be located in the Harbor Centre complex.

Athabasca University will receive \$7 million in cash and another \$7 million in resources and services to set up a distance learning development centre funded by government and private industry. It will test and develop computer, telecommunications and broadcast equipment used in distance education. (Notes from AUCC)

# Research centre provides seed funding for information technology innovations

The Centre for Information Technology Research has announced seed funding for innovations in information technology. The projects include applications of existing technology as well as pilot uses of new technological advances.

Prof. Wayne Pfeiffer, Rural Extension Studies, received support to explore the use of cellular radio to allow access to University systems from rural areas without appropriate telephone service. "We will be investigating the feasibility of providing remote site access to central computers and databases," says Pfeiffer. This will allow the department to plan future uses of the technology, opening new opportunities for distance education and research.

Prof. Marjorie Wall, Consumer Studies, will be pioneering a new application of computer-aided tools to clothing design with her grant. Assisted by graduate student Holly Van Schoor, Wall will be customizing an existing software package for complex clothing design problems. With the support of an instructional development grant from the Office for Educational Practice, Wall will incorporate the results in the department's teaching programs.

An interdisciplinary team co-ordinated by Dr. Elizabeth Bloomfield, History, has received support to help create a digitized database from the Ontario census of 1871. The project team — two historians, an historical geographer and an economic historian — will also examine how contemporary georeferencing systems could be applied to historical data, and the potential benefits of techniques from computer-aided cartography for historical analysis.

Students in the Department of Economics will be accessing an on-line market simulation because of another information technology project. Profs. Bram Cadsby and Murray Frank, along with graduate student Bo Wandschneider, are designing a software system to replace the in-class simulations they have used in teaching the impact of various market factors. The computer system will enable the student traders to focus on market conditions rather than calculations, and allow accurate process of rapid transactions during the class.

OVC's VMIMS computerized system will be

used in another project as a data source for teaching cases. Prof. Tatiana Stirtzinger, Pathology, will be developing interactive case simulations for teaching veterinary diagnostic techniques and interpretation. The software developed for this project is to serve as a prototype for other uses of VMIMS data for instructional purposes.

"We received applications for funds far exceeding those available," says Prof. Tom Carey, Computing and Information Science (CIS), chair of the centre's steering committee. In some cases, the committee was able to arrange for loans of equipment to help research projects get under way — Prof. Charles Wilson, Music, received the use of a Macintosh computer for two years to support him in developing compositional processes in electroacoustical music, and to help the department plan updates to its electronic music equipment.

In other cases, the committee encouraged researchers with similar interests to pool resources — Michael Leblanc, Fine Art, will be working with Alex Lopez-Suarez, CIS, to demonstrate the use of a new kind of organizing textual data. The new technology, called "Hypertext," allows text to be structured as a multi-dimensional space, with rapid access between related sections.

Dr. George Harauz, Molecular Biology and Genetics, will be working with Prof. Amelia Fong Lohovsky, CIS, on a demonstration project for advanced computer imaging techniques. And Prof. Ted White, Zoology, will also be working with CIS researchers to develop an expert system for diagnosis of equipment problems in his laboratory. This project will serve as a prototype for similar uses across campus.

In preparation for future projects, several faculty members also received travel grants to explore specific opportunities, says Margaret Beckman, executive director for information technology.

"There were a number of common themes which emerged from the proposed projects," she says. "We will be attempting to coalesce these into a campus strategy for a leadership role in innovative aspects of IT (information technology) applications." O

# Public meeting on retirement village draws large turnout of seniors

Almost 200 people, many of them seniors, turned out at a public meeting last Thursday to hear about a University concept to lease 100 acres of excess land near The Arboretum for development as a retirement village. Chaired by Prof. Mark Waldron, director of the University School of Part-Time Studies and Continuing Education, the meeting was one of a series planned by the University to discuss development plans for its excess landholdings.

U of G's real estate manager, John Armstrong, told the meeting that the University had "wrestled with the type of development to go on this property" southeast of the University. "The results of a market study support a retirement community... something that we feel is lacking in the Canadian marketplace." The University has an opportunity to "show leadership" by helping to establish a retirement community offering a lifestyle and services "that are very badly needed," he said.

Prof. Alun Joseph, Geography, said retirement communities "represent a necessary effort to plan for an older Canada." By the year 2031, he said, Canada's over-65 population will be 7.5 million, compared to 2.7 million today.

The meeting was also addressed by retirement consultant John Maynard, who outlined the maintenance, lifestyle and health care services a retirement village would provide, and planning consultant Patrick Sweet, who described some of the design ideas being considered for the Guelph project as well as those being used in similar projects around the world. Sweet emphasized that the village proposed for Guelph is "at a very early stage in the planning and development process. We are at the consultation stage." Armstrong said if plans were to proceed, the first phase of the project would likely be completed in 1990.

Questions from the audience focused largely on practical matters — cost, taxes, leases, development and management of the village,

but one participant expressed some concern about isolating the elderly in areas away from other sections of the population. Joseph said surveys of people living in retirement communities have found they "don't perceive themselves as being ghettoized or segregated. And they say if they felt that way, they could move out."

Questions were also raised about the ability of the village management to ensure that only people of retirement age will buy homes there. In a university town, where housing is limited, what is to stop someone from buying a home and renting it to students, one audience member asked. Legally there is nothing to stop anyone of any age from buying in the community, said Armstrong. "The only way we can restrict the age is by design and possibly by price."

President Bud Matthews, who opened the meeting, told the audience he was pleased to see such a large turnout. "We are delighted to have you here," he said, "and we hope you will turn out for future meetings as our thinking develops." O

# Faculty and staff activities

Jo-Anne Rzdaki of the natural heritage stewardship project in Land Resource Science has been invited to participate on the editorial board of the *Natural Areas Journal*. The journal is a quarterly publication of the Natural Areas Association, a non-profit, professional organization for individuals involved in the identification, evaluation, management and projection of natural areas in North America. O

## At Guelph

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Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified. Stories may be reprinted with acknowledgment of source.

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# Briefly

## Winter in The Arboretum

The Arboretum's winter program begins this month. The program includes Sunday afternoon walks beginning Jan. 17, a winter bird survey (adults only) Jan. 16 and "Avian Gourmet Delights" (adults only) Jan. 20. Advance registration for "Avian Gourmet Delights" is required. For more information, call Ext. 3932.

## OVC Drug Day

OVC presents Drug Day '88 Jan. 19 at the equine admissions arena and lunging ring. From 1 to 3 p.m., fourth-year students, clinicians and faculty are invited; from 3 to 5 p.m., the entire college is welcome.

## Vet students meet

U of G will host the first Canadian Veterinary Students' Conference Jan. 21 to 24. Events include receptions, hockey tournaments, tours, parties, speakers, lectures, wet labs and a dinner dance. Students from all four Canadian veterinary schools — Eastern College of Veterinary Medicine, Prince Edward Island; Faculty of Veterinary Medicine, Saint Hyacinth, Quebec; Western College of Veterinary Medicine, Saskatchewan; and OVC — will attend.

## Theatre in the Trees

Theatre in the Trees presents *Key for Two* Jan. 23 and 30, Feb. 6, 13 and 27 and March 5, 19 and 26. Buffet dinner begins at 6 p.m.; the play begins at 8 p.m. Tickets are \$25.50 and are available from the University Centre box office, Ext. 3940. For more information, call Ext. 2113.

## Aid for overseas school

Sor Carmen Arbustini Mata, director of the Colegio Sagrado Corazon in Costa Rica, is requesting materials or financial aid for her school. It is a private Catholic school, sustained by monthly tuition fees paid by parents. Any individual or group interested in helping should contact Franlie Allen, Development Education, Ext. 6915.

## The four C's of teaching

During the winter semester, the Office for Educational Practice is sponsoring a series of seminars, workshops, discussions and demonstrations to assist faculty in developing their teaching. A discussion of "The Four Cs of Teaching" — commitment, compassion, comfort and competence — will be presented Jan. 14 from 10 a.m. to 12 noon in Room 141, Animal Science building. Guest speakers are three faculty members who have recently received teaching awards — Profs. Ernie McFarland, Physics, Terry Gillespie, Land Resource Science, and Blair MacNeill, Environmental Biology. For more information, call Mei-fei Elrick at Ext. 3522.

## Burns Pub Night

A Burns Pub Night, hosted by Prof. Ted Cowan, History, will be held Jan. 22 at 6 p.m. Tickets are \$6 and can be purchased from the Faculty Club Office, Level 5, University Centre.

## Systematic seminar series

The Interdepartmental Systematics Group is presenting six lectures in a seminar series on systematics. Dr. Daniel Brooks of the University of British Columbia's department of zoology will speak on "Phylogenetic Systematics and Macroevolution" Jan. 14 at 3 p.m. in Room 259 of the Botany, Genetics and Zoology building.

## Women's Day

The CSA and the Office of the Women's Commissioner presents Women's Day, a series of workshops for women, Jan. 17 from 12:30 to 4 p.m. in the Faculty Club, Level 5, University Centre. Participants can choose to attend two out of four seminars to be presented. At 12:30 p.m. the seminars are "Women in the Workforce" with Frances Walsh, Ontario Women's Directorate, and "Guelph-Wellington Women in Crisis," with two representatives from the Sexual Assault Centre. At 3 p.m., there will be a discussion of "Relationships: How They Affect Us," with Karen Davis, Human Services Community Inc., and a feminist panel discussion featuring Klari Kalkman of the Guelph Status of Women Action Group, Rev. Dorothy Barker, Linda Kivi of the Guelph Sexual Assault Centre and Prof. Joanna Boehnart, Psychology. There will be a wine and cheese discussion break between the seminars. Register in Room 273, University Centre; fee is \$5. For more information, call Sarah Manning, Ext. 6741.

## Focus on organ transplants

The Guelph and District Multicultural Centre presents Ken Trowbridge speaking on "The Miracle of Organ Transplant" Jan. 19 from 7:30 to 9 p.m. at 128 Woolwich St., Suite 203. Included in the evening will be an audio-visual presentation. For more information or to register, call 836-2222.

## Noon-hour concert

The Thursday noon-hour concert Jan. 28 features Trio Stringendo with violinists Mary Ann Fujino and Paul Zafer and pianist Glenn Hodgins. Fujino is in her third year at the Faculty of Music at the University of Toronto and has been a member of the National Youth Orchestra for four years. Zafer is in his fourth year of the performance program at Toronto. Hodgins holds a bachelor of music in piano performance from Toronto and is currently coaching there and in New York City.

Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "Three on a Spree" by Alexander Brodt; "Sonata No. 1" and "Sonata No. 12" by Giambattista Pergolesi; "Suite Italienne" by Igor Stravinsky; "Concerto in d minor" by Bach; "Serenade Op. 56" by Christian Sinding and "Sonata in g minor Op. 2, No. 8" by Handel. Program II at 1:10 p.m. will feature "Suite in g minor, Op. 71" by Maurice Moszkowski; "Rhapsody Op. 119, No. 4" and "Intermezzo Op. 119, No. 3" by Brahms and "Bach at the Double" by Teddy Bor.

## BoFG cancelled

The Board of Governors meeting tentatively scheduled for Jan. 28 has been cancelled.

## Relaxation classes

Relaxation classes for stress remediation and high performance will be offered by the Relaxation and Biofeedback Clinic in the School of Human Biology. The program includes 10 group relaxation sessions and one follow-up session, beginning Jan. 28. The sessions meet Monday and Thursdays from 7:30 to 8:30 p.m. Cost is \$65, and registration will take place Jan. 21 at 7:30 p.m. in Room 209, Human Biology building. Anyone with a medical condition should check with their doctor before enrolling. For more information, call Ext. 2662 or leave a message at Ext. 6713.

## Positions in Indonesia

The Sulawesi Regional Development Project, jointly funded through the Canadian International Development Agency (CIDA) and the government of Indonesia, expects to have the following positions available in the near future: field team leader, senior administrative adviser (Jakarta), regional advisers in Ujung Pandang and Kendari, rural advisers in Watampone and Bau Bau and training co-ordinator based in Ujung Pandang. Qualifications for these positions include development experience, a graduate degree in a relevant discipline and sensitivity to women and non-governmental organization issues. Benefits are consistent with those provided to CIDA co-operators. Direct inquiries or applications to: The Director, Sulawesi Regional Development Project, University of Guelph.

## An evening of films

"The Eye Hears and the Ear Sees," an evening of films by and about National Film Board filmmaker Norman McLaren, will be held Jan. 29 at 8 p.m. in Room 113, MacNaughton building. Presented by the Humanities Association, the evening is free to members and all students. Cost for others is \$4 at the door. Doors open at 7:30 p.m.

## Wildest game in town

The Whippertree will feature game dishes as their nightly specials Jan. 13 to 16. Included will be a selection of rabbit, venison, guinea fowl and buffalo. Entertainment from Jan. 14 to 16 will be comedian Joe Mulligan. Shows start nightly at 10 p.m. For information and reservations, call Ext. 3500. Watch for the upcoming Italian Buffet Night Jan. 19.

## Conference on light and color

Memorial University's Sir Wilfred Grenfell College in Corner Brook, Nfld., is hosting a national conference on the theme of "Light and Color" May 11 to 15. The conference will bring together scholars from across Canada and across disciplines. For more information, call Prof. Michael Coyne, 709-637-6333, or Dr. Patrick Monaghan, 709-637-6331, or write to them at Sir Wilfred Grenfell College, MUN, University Drive, Corner Brook, Nfld. A2H 6P9.

## Commissions of inquiry

Dalhousie University will present a conference on "Lawyer's Values and Public Policy Makers' Values" Feb. 25 to 27. The sessions will address many aspects of the work and role of commissions, from the impact of their organization and management to their conduct of hearings and their policy impact. General registration fee is \$200, but for a limited number of academics and students, a special academic rate of \$100 has been established. For more information or to register, contact Commissions of Inquiry Conference, c/o Dean's Office, Dalhousie Law School, Halifax, N.S. B3H 4H9, or call Heather Brentun at 902-424-2114.

## Physics fellowships offered

The Physics Department offers fellowships to outstanding high school graduates who plan to study physics or biophysics at U of G. For a nine-week period during the summer, recipients work with faculty members, graduate students and undergraduate students on research projects. A stipend of \$1,600 is available, and living accommodation is provided free of charge for recipients not within commuting distance of Guelph. For applications, call or write Prof. Ernie McFarland, Department of Physics, University of Guelph, Guelph N1G 2W1, 519-824-4120, Ext. 3653. Application deadline is Jan. 29.

# BUGS seeks committee for counselling/advising report

Board of Undergraduate Studies (BUGS) is to seek Senate support Jan. 19 for setting up a special committee to act on the *Report on Counselling and Advising at the University of Guelph*.

The report from the acting associate vice-president, academic, the acting provost and BUGS is going to Senate to be received before the academic governing body can vote on a motion to recommend establishment of the committee to the vice-president, academic. The committee, consisting of members of the academic and support service units, would examine the report's recommendations and assess their feasibility through discussions with concerned units, then prepare a plan outlining priorities, timing and sequence for implementing the recommendations. The vice-president, academic, would give Senate a progress report by July.

The report is in response to Recommendation 1.10 of *Toward 2000: Challenges and Responses. Aims of the University of Guelph*, which called for a study of the counselling and advisory system to ensure that it is effective and efficient and that it introduces students to the range of the University's learning resources, clarifies their educational objectives and supports them in their learning experiences.

The study was initiated by then associate vice-president, academic, Dr. Janet Wardlaw, and then provost, Paul Gilmor, and was completed by the acting associate vice-president, academic, Dr. Ernest Dalrymple-Alford, and the acting provost, Brian Sullivan, with the help of a broadly representative review committee.

Other agenda items include approval of the list of graduands for winter convocation, a report from the Committee on University Planning on the implications of the 1987-88 budget, reports from the Committee on Bylaws

and Membership, the Committee on Awards and the Information Technology Committee and a report on the December meeting of the Council of Ontario Universities.

Senate will meet at 8 p.m. in Room 113 of the MacNaughton building, O

# Personals

**For Sale:** Self-correcting IBM Selectric typewriter, maple window frame mirror, small pine mirror, rocker/recliner with heater and vibrator, 821-5502 after 5 p.m.

**Available:** Typing, 821-5502 after 5 p.m. Graphic artist for technical illustrations, etc., Gabrielle, 824-6207. Word processing, typing, resumes, data entry on a PC, 824-2426.

**For Rent:** Sunny, two-bedroom apartment next to Exhibition Park, main floor plus full basement, private backyard, no pets, available January to May, 837-3809 after 4 p.m. Three-bedroom house on Kortright Road, \$950 a month, 763-5506.

**Wanted:** A miniature poodle, 822-6070. To contact man with grey beard who bought original painted shutters from the yard sale on Edinburgh Road Aug. 14, 1987, 837-1408 between 4 and 8 p.m. Single, responsible person to share four-bedroom house on cul-de-sac backing on conservation area, available immediately, \$700 a month, leave message at 763-5506.

**Lost:** White German Shepherd on Gordon Street, answers to Whitey, wearing red collar, reward, 821-8143, or call collect 416-698-6391.

# Job opportunities

As of *At Guelph* deadline Jan. 8, 1988, the following opportunities were available:

**Department Head, Administrative Department, Physical Resources.** Salary commensurate with qualifications and experience.

**Assistant Director, Operations, Alumni Affairs and Development.** Salary commensurate with qualifications and experience.

**Technician, Nutritional Sciences; grant position.** Hiring range: \$353.20 to \$382.66 per week.

**Technician, Plant Molecular Biology; grant position.** Salary will be commensurate with qualifications and experience.

*The following positions were available to on-campus employees only:*

**Assistant to the Registrar, Office of the Registrar.** Salary range: \$24,123 minimum; \$30,154 midpoint; \$36,185 maximum. Normal hiring range: \$24,123 to \$28,385.

**Foreman/Forewoman, Housekeeping Department; night shift.** Salary range: \$27,174 minimum; \$33,967 midpoint; \$40,760 maximum. Normal hiring range: \$27,174 to \$31,929.

**Senior Systems Programmer, Computing Services.** Salary commensurate with qualifications and experience.

**Administrative Secretary, Administrative Department, Physical Resources.** Salary range: \$333.04 minimum; \$384.36 job rate (level 5); \$477.27 maximum.

**Accounting Clerk, Director's Office, University Centre Administration.** Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

**Porter, Residences (north area).** Job rate: \$10.52

per hour; probation rate: \$ .20 per hour lower than job rate.

**Secretary 1, Veterinary Teaching Hospital.** Salary range: \$276.64 minimum; \$320.83 job rate (level 5); \$385.08 maximum.

**Clerk I, Independent Study Division, University School of Part-Time Studies and Continuing Education; temporary full-time.** Hiring range: \$276.64 to \$300.60 per week.

**Custodian 2, Housekeeping Department.** Job rate: \$10.27 per hour; probation rate: \$ .20 per hour lower than job rate.

**Custodian 3, Housekeeping Department.** Job rate: \$10.75 per hour; probation rate: \$ .20 per hour lower than job rate.

**Secretary, Animal and Poultry Science; maternity leave — March 7/88 to July 7/88.** Hiring range: \$276.64 to \$300.60 per week.

**Library Assistant I, track 1, Documentation and Media Resource Centre, Library.** Salary range: \$276.64 minimum; \$320.83 job rate (level 5); \$385.08 maximum.

**Library Assistant I, track 2, Circulation/Reserve, Library.** Salary range: \$276.64 minimum; \$320.83 job rate (level 5); \$436.76 maximum.

**Shipper/Receiver, Veterinary Teaching Hospital, OVC.** Job rate: \$10.75 per hour; probation rate: \$ .20 per hour lower than job rate.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.



# Coming events

## WEDNESDAY, Jan. 13

Biochemistry Seminar - "In vivo NMR Imaging and Spectroscopy of Rat Liver: Old Problems, New Insights," Fred Brauer, 12:10 p.m., MacNaughton 222.

Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.

## THURSDAY, Jan. 14

Instructional Development Discussion - "The Four C's of Teaching," Ernie McFarland, Terry Gillespie and Blair MacNeill, 10 a.m., Animal Science.

Worship - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.

## FRIDAY, Jan. 15

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.

## SATURDAY, Jan. 16

Basketball - Wilfrid Laurier at Guelph, women's, 6 p.m., men's, 8 p.m., Athletics Centre.

## SUNDAY, Jan. 17

Worship - Muslim Students' Association Lectures on Islam, 10 a.m., UC 332; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Service, 10:30 a.m., UC 103.

Women's Day - "Women in the Workforce" and "Guelph-Wellington Women in Crisis," 12:30 p.m.; Feminist Panel Discussion and "Relationships: How They Affect Us," 3 p.m., Faculty Club, UC Level 5, \$5.

## MONDAY, Jan. 18

Information Table - CUSO, 10:30 a.m. to 2:30 p.m., UC courtyard.

Our World - "Mozambique Under Siege," Greg Keist, 12:10 p.m., UC 441.

Worship - Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, Jan. 19

Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.

OVC Drug Day - 1 to 3 p.m., fourth-year students, clinicians and faculty; 3 to 5 p.m. entire college welcome, equine admissions area and lunging ring.

Systematics Seminar - "Phylogenetic Systematics and Macroevolution," Daniel Brooks, 3:10 p.m., Botany, Genetics and Zoology 259.

Hockey - Western at Guelph, men's, 7:30 p.m., Memorial Gardens.

Meeting - Senate, 8 p.m., MacNaughton 113.

## WEDNESDAY, Jan. 20

Biochemistry Seminar - "Some Novel Industrial Applications of Microbial Enzymes," Owen Ward, 12:10 p.m., MacNaughton 222.

Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.

Lecture - "The Future of Canada," Jean Chretien, 8 p.m., War Memorial Hall, \$8.50 general, \$6 students and seniors.

## THURSDAY, Jan. 21

Worship - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.

Conference - "First Canadian Veterinary Students' Conference," OVC, continues to Jan. 24.

Volleyball - Wilfrid Laurier at Guelph, men's and women's, 8 p.m., Athletics Centre.

## FRIDAY, Jan. 22

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.

Pub - Burns Pub Night, 6 p.m., Faculty Club, UC Level 5, \$6.

## SATURDAY, Jan. 23

Human Kinetics Symposium - "Trauma and Treatment," 8:45 a.m. to 6 p.m.

Wrestling - Guelph Open, 10 a.m., Athletics Centre.

Dinner Theatre - Theatre in the Trees, Key for Two, 6 p.m., The Arboretum, \$25.50.

## SUNDAY, Jan. 24

Worship - Muslim Students' Association, Lectures on Islam, 10 a.m., UC 332; Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.

## MONDAY, Jan. 25

Our World - Sitar Music, Ballu Thakur, 12:10 p.m., UC 441.

Worship - Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

Information Meeting - CUSO, 7:30 p.m., UC 103.

## TUESDAY, Jan. 26

Worship - Catholic Mass, 12:10 p.m., Chapel, UC Level 5.

Hockey - McMaster at Guelph, women's, 7:15 p.m., Athletics Centre.

## WEDNESDAY, Jan. 27

Biochemistry Seminar - "Enzymes from *Saccharomyces cerevisiae* that Catalyze Steps in Genetic Recombination," David Evans, 12:10 p.m., MacNaughton 222.

Worship - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.

Volleyball - Western at Guelph, women's, 6 p.m., men's, 8 p.m., Athletics Centre.

Postage paid in cash at first-class rates, Permit 1149, Guelph, Ontario, N1G 2W1.





## Cover:

Supplement: Internal communications report	
The Campaign donors recognized .....	1
Honorary degree recipients .....	3
Why are we in Indonesia? .....	4

## Inside:

The University honored major donors to The Campaign Jan. 13 with the presentation of a citation bearing a first-edition copy of the CD-ROM library catalogue. Among the recipients were representatives of the student body, which has made one of the largest commitments with a pledge of \$2.5 million to help finance additional athletic facilities. Pictured left to right are John Bassett, national co-chair; Dennis Blake, president of the Graduate Students' Association; Jim Ryan, president of the Central Student Association, and Marjorie Millar, director of Alumni Affairs and Development.





## Donors, achievements recognized

THE  
CAMPAIGN

by Mary Dickieson

It was a University handshake for *The Campaign*'s major donors, a pat on the back for the volunteers and thumbs up for the University of Guelph Library's innovative CD-ROM catalogue at a press conference held in Toronto last Wednesday.

Celebrating the achievement of 92 per cent of its \$60-million goal, *The Campaign* honored 17 donors who have contributed more than \$250,000. Each was presented with a citation bearing a first-edition copy of the Library's CD-ROM (Compact Disk — Read Only Memory) catalogue, one of the University's newest products.

The presentations were made by John Bassett, national co-chair of *The Campaign*, Lyn McLeod, Ontario's new minister of colleges and universities, and Marjorie Millar, director of Alumni Affairs and Development.

The recipients were the City of Guelph, The Eaton Foundation, IBM Canada Ltd., members of the Ontario dairy processing industry, the Ontario Egg Producers' Marketing Board, the Central Student Association, the Graduate Students' Association, the Max Bell Foundation, Nestle Enterprises Ltd., Benjamin Newman, Semex Canada, the Canadian Imperial Bank of Commerce, Cecil H. Franklin, Imperial Oil Ltd., the Royal Bank of Canada, J.M. Schneider Inc. and the County of Wellington.

Bassett applauded the success achieved by campaign volunteers in only 16 months. The entire academic community is following the success of the U of G campaign, he said, and within the private sector, "more people now than ever before recognize that the University of Guelph is one of the absolute top universities in our country."

Bassett thanked the taxpayers of Ontario for their \$16-million contribution to *The Campaign*'s flagship project, a \$24-million environmental biology/horticulture building, and called on McLeod to finish what her predecessor had begun. Former minister Greg Sorbara announced the MCU commitment early in 1987.



Campaign donors honored on Jan. 13 had each contributed more than \$250,000. Accepting the citations were, left to right: Bill Scott, chair of the Ontario Egg Producers' Marketing Board; Wayne Dinwoodie, vice-president, corporate banking (Ontario), the Royal Bank of Canada; Ian Murray, president and CEO, Nestlé Enterprises Ltd.; Douglas Dodds, president and CEO, J.M. Schneider Inc.; Benjamin Newman (individual gift); Dr. Moe Freeman, president, Semex Canada; Gail Sinclair, program officer, Max Bell Foundation; Patrick Wilson, company community relations manager, The Eaton Foundation; Ken Fockler, manager, corporate and scientific programs, IBM Canada Ltd.; Guelph Mayor John Counsell; Thomas D. Kane, president, Ontario Council, on behalf of the members of the Ontario Dairy Processing Industry; Philip Cotton, senior vice-president, human resources Canadian Imperial Bank of Commerce; Jim Ryan, president, Central Student Association; Cecil Franklin (individual gift); Dennis Blake, president, Graduate Students' Association; Richard Michaelides, vice-president, public affairs, and secretary, Imperial Oil Ltd.; and Murray Cox, Wellington County warden.

Photos by John Majorossy, Photographic Services.

"It started us out with a firm platform on which to build," said Bassett. Now, with only \$5 million left to raise, he suggested McLeod "scrape the bottom of a drawer" to complete *The Campaign*. "If she does, she's got my vote for the rest of my life," said Bassett, a well-known Conservative.

McLeod applauded the University for its fund-raising success — "a tangible measure of Guelph's status as an institution of higher education and the commitment of its volunteers" — and for its development of CD-ROM — "one more step in Guelph's decade-long prominence in high-tech library systems."

Chief librarian John Black gave a demonstration of CD-ROM capabilities, offering donors and media an opportunity to view the 19-gram disk that holds the equivalent of 200,000 printed pages — the Library's entire card catalogue. The Library was the first major academic library in the world to offer users access to its on-line catalogue through the CD-ROM technology, said Black. The disk was produced by Reteaco Inc. of Toronto for the Library. Copies of the catalogue on CD-ROM disk are being sold by the University at a cost of \$250.

The University also presented citations to volunteers Ken Murray, co-chair of the regional

canvassing committee, and Harry Seymour, co-chair of the alumni committee. Bassett delivered an impromptu pep talk for campaign volunteers, warning that "we must not let ourselves be lulled into thinking it's finished. The last \$5 million will be the hardest to raise."

He and President Burt Matthews stated personal goals to reach the \$60-million target by

June 30, 1988. But University fund-raising efforts will continue beyond completion of *The Campaign*, said Matthews. *The Campaign* project list identifies only a percentage of the capital projects that are identified as priorities and will need the assistance of private funding, he said. "The University will never quit fund raising." □



Celebrating the completion of 92 per cent of the University's campaign goal are, left to right: Prof. Susan McIver, chair of Environmental Biology; Lyn McLeod, Ontario minister of colleges and universities; and President Burt Matthews.



Guelph Mayor John Counsell poses with Marjorie Millar, director of Alumni Affairs and Development, after accepting a citation honoring the city for its \$1 million commitment to *The Campaign*.



# Internal communications: It's everyone's responsibility

President Burt Matthews says he plans to ask the appropriate people to consider the recommendations in the *Report of the President's ad hoc Committee on Internal Communications*.

The report is a supplement in this issue of *At Guelph* to internal readers only. External readers can obtain copies from the University Secretariat, Level 4, University Centre, 519-824-4120, Ext. 2144. The appendices to the report are not included, but are available for consultation at the office of the University Secretariat.

Matthews has received the report of the committee, which was formed by the president last summer. Chaired by Ellen Pearson, Library, the committee comprises Barbara Abercrombie, University Secretariat; graduate student Dennis Blake; Mary Cocivera, Alumni Affairs and Development; Prof. Ramon Hathorn, Languages and Literatures; Prof. Elaine McCreary, Rural Extension Studies; Allan McInnis, Residences; undergraduate student Christopher Moore; and Sheila Trainer, Zoology. The report was written mainly by Abercrombie and Cocivera.

The report addresses a potpourri of issues raised by the more than 70 people who gave presentations and suggestions to the committee, which was assisted by the deliberations of the 1986 Subcommittee of the University of Guelph Advisory Committee on Liaison and Communications.

Good communications is the responsibility of "each and all of us" in the University community, says the report. It lists recommendations for each and all and also defines who should be responsible for carrying out some specific recommendations.

All selection committees should keep communication skills in mind when seeking people for leadership positions, says the report.

Senior administrators should reassess their own and the University's priorities to free up more time for the process of effective communications, it says. They should assess the communications skill level of officers reporting to them and recommend strongly that they enrol in skill-building courses if necessary. Senior administrators should set an example for their colleagues by participating in workshops or training programs to improve communication skills, and should promote more face-to-face communication by "management by walking around."

Deans, directors and department chairs/heads should hold regular meetings, says the report. Some of these should be open to all faculty, students and staff within the same department or unit, and some should be open to people from other departments.

Personnel should draw up an inventory of essential communication skills — listening, eliciting feedback, effective telephone com-

munication, chairing meetings and managing change — and design courses to improve the skill level of key campus communicators, says the report.

The Committee on University Planning (CUP) and the Committee on Bylaws and Membership should develop guidelines setting out the obligation of senators and Senate's representatives on the Board of Governors and other University bodies to inform their constituents of major policy discussions in the Senate and its boards and committees, both before and after their adoptions, says the report. Each Senate and University committee should determine ways to publicize its mandate, solicit contributions, hold a pre-decision debate on important issues and report back to the community on how to implement recommendations and decisions.

The Committee on Bylaws and Membership should review regulations governing student representation on Senate and propose, where feasible, recommendations on: students' responsibility to their electorate; lack of resources available to student senators for

ments," says the report.

*At Guelph* should also have an editorial advisory board, it says. And the publication should continue to encourage community contributions, publish faculty research activities and give recognition to the contributions made by staff, students and faculty to the welfare of the University.

The director of PRI is asked, in consultation with others, to draw up a University communications policy that would be published annually and given to new faculty, staff and students. The report recommends that PRI explore new ways to package information — including electronic daily bulletins and a PhoneMail information hotline. *At Guelph* distribution boxes should be placed in strategic University locations, says the report.

The committee recommends appointment of a communications catalyst to conduct a communications audit and to shepherd the internal communication recommendations into practice.

Recognizing the role of informal communica-

*"All members of the University community have responsibility for reading, for listening, for informing themselves and others, for conveying their views about policies and working conditions, and for short-circuiting rumors they know to be false. People elected by their peers or appointed to represent the community on committees have a special responsibility to inform their colleagues of actions that may be contemplated and of decisions that are taken, and to solicit their views."*

*"The committee believes that the principle of 'cabinet solidarity' is worthy of broad application. To wit: all persons who are party to decisions and participate in policy-*

*making processes should assume personal responsibility for their successful promulgation; if they find themselves unable to agree with a collective or majority decision or policy, they should disagree openly within the decision-making body and must not later engage in 'sabotage' when it comes to implementing or communicating the decision or policy."*

*"Listeners have an obligation to listen. Readers have an obligation to read. Individuals have an obligation to make their needs and wishes known in a constructive manner to the person or department whose responsibility it is to act on that need."*

communicating with other students; the possibility of replacing at-large student representation on Senate with appointments from the Central Student Association, the Graduate Students' Association and the seven college student councils; and the *ex officio* appointment of the GSA 1st vice-president to the Senate, in recognition of the similar status offered the CSA vice-president, internal. The committee would report back to Senate by March 1988.

CUP should also review Senate's committee structure and regulations and propose recommendations designed to publicize the agenda of Senate and Senate committees, provide a directory of senators and Senate services, reduce membership on Senate committees and rationalize the mandates of Senate committees and subcommittees. The committee would solicit the views of the University community on how Senate might improve communication with its constituents and submit a report to Senate by April 1988.

Public Relations and Information is asked to establish different printed news vehicles for external audiences and retain *At Guelph* as the internal news vehicle. The committee recommends that *At Guelph* clarify its role and mandate, and publish it in its editorial policy. It should have a format that clearly distinguishes between comment from the University community and "official" administrative docu-

ment, the committee suggests there be coffee break areas in each working unit, and that everyone be encouraged to use them.

Some people may wish to raise issues and concerns anonymously, says the report, and it recommends suggestion boxes or a "private line" system that would allow an individual to discuss anonymously any matter with a responsible individual in the University. Matters of concern to several people could be published in a specially designated column in *At Guelph*. The public airing of such concerns would help to prevent distortion and rumor, says the report.

People who receive complaints or expressions of concern should respond with a report on how the issue was resolved, or why it could not be resolved to the satisfaction of the person(s) raising the issue, says the report.

University-wide document delivery systems should be assessed and strengthened so that on-campus mailings reach everyone quickly and at the same time, says the report. Personnel is asked to create and maintain a regularly updated mailing list for general University use of people who are on campus but not on the University's payroll, and to keep the list updated. The telephone directory should be expanded to include departmental listings, a guide to services and an organization chart that reflects the functional organization of the University.

The committee identified the need for more

lead time for important announcements requiring a response — two weeks during term and one month during the summer. Issues affecting students should not be debated or finalized during the months when there are few students on campus.

The committee acknowledges a heavy paper flow problem and says more business could be conducted electronically.

Addressing graduate students' concerns, the report says departments should ensure that graduate students applying to enter a program should be given a handbook containing all information related to that program.

Staff associations and bargaining units should provide frequent interchange of "how-to" information and ideas among their members and hold regular informal meetings to hear invited speakers from other areas of the University.

Personnel is asked to enhance and make mandatory its orientation program for all new employees of the University, and to ensure that its programs — performance review, merit pay, job descriptions, training programs — acknowledge and emphasize the development of effective communications as a means of enhancing the human potential of the University's employees. Job descriptions should clearly describe responsibility for communicating to those above and below in the organization chart, says the report.

The University should keep in touch with retirees, says the report, and it recommends that ways be found to maintain contact with those who want to stay in touch with the University. The University should recognize the contributions retirees make to the institution.

The committee also calls for a review of frequently used printed material such as the *Calendar*, the *Student Handbook*, faculty policies and administrative policies to make sure that they are well written and clearly understood by their audience.

Those responsible for campus bulletin boards should ensure that outdated posters are removed, and there should be designated separate boards for textbook, typing notices and commercial ads, says the report.

Training/retraining sessions in the use of ROLM phones and PhoneMail are also suggested.

The report recommends that CoSy be used to send important announcements to the University community, and that CFRU radio be asked to publish and distribute annual information about its services for broadcasting announcements to students.

The report also recommends that the coordinator of French-language services prepare a report on the feasibility of providing services to students whose first language is French.

The internal communications committee has done a good job of raising the issues and suggesting some steps that might be taken to improve internal communications, says Matthews. He plans to invite the various individuals, groups, units and departments to address the suggestions in the report, and he encourages faculty, students and staff to examine the role they might play in internal communications. Matthews says he welcomes comments on the report.

Pearson says the committee arrived at recommendations by consensus. "There was a lot of spirited and frank discussion, but we never got to the point that we had to take a vote on whether to put something in or not," she says.

Without exception, she says, the people who talked to the committee really care about the University. "They really felt that they had some suggestions to make, and they had very positive feelings about what could be done for good communications, and about a lot of the good communication things put in place in recent years that are touched on in this report."

Pearson says the committee sees the report as "Phase I in a continuing process of improving our communication capabilities." The recommendations are a chart of signposts — rather than a detailed map — of what can be done, she says.

A compendium of communication methods were collected by the committee from across campus, and the committee suggests that these be made available to managers so they can be aware of the range of techniques used by other departments and adopt those suitable to their setting. These are available for consultation in the University Secretariat's office. Extra copies of the supplement in *At Guelph* are also available from that office. O

## At Guelph

is published by the University of Guelph for the University community and its friends every Wednesday except during December, July and August, when a reduced schedule applies.

*At Guelph* is guided by an editorial policy approved by the president of the University. A copy is available upon request.

Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items, speeches, faculty and staff activities, and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified.

Stories may be reprinted with acknowledgment of source.

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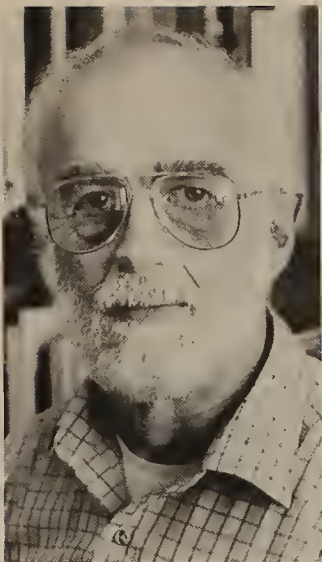
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Dr. Harry Rubin



Dr. Michael Smith

## Two researchers to receive honorary degrees

Dr. Harry Rubin, a noted medical scientist in cancer research, and Dr. Michael Smith, a leading Canadian molecular biologist, will receive honorary doctor of science degrees at winter convocation Feb. 5.

### Harry Rubin

Rubin is a professor of molecular biology and a research virologist at the University of California, Berkeley. A member of the National Academy of Sciences U.S.A., he is widely recognized as being in the forefront of medical science. His published works have made a major contribution to the scientific literature on virology and cell biology.

Rubin is recognized as a leader in the field of cell growth regulation and malignancy, where he is seen as an exponent of the position that cancer is a result of heritable adaptation to various stressful changes, rather than being due to random mutation. Through the years, his papers have appeared in *Proceedings of the National Academy of Sciences U.S.A.*, *Journal of the National Cancer Institute*, *Cancer Research*, *Journal of Cell Physiology* and *Virology*.

Rubin is the recipient of many awards, including the 1959 Rosenthal Award of the American Academy of Arts and Sciences for cancer research; the Eli Lilly & Co. Prize in Bacteriophage and Immunology in 1961; the Merck Research Award and the coveted Lasker Basic Medical Research Award in 1964; the Modern Medicine Distinguished Achievement Award and the Langer Cancer Research Foundation's Ester Langer Award in 1967.

In addition, he was recognized as the National Institute of Health's Dyer Lecturer in 1964, and as the New York Academy of Sciences' Harvey Lecturer in 1966. He was elected to the American Academy of Arts and Sciences in 1974, and to the National Academy of Sciences U.S.A. in 1978.

After graduating from Cornell University in 1947 with a degree in veterinary medicine, Rubin worked for the Mexican department of agriculture, the U.S. public health service, the National Foundation for Infantile Paralysis and the American Cancer Society. In 1958, he joined the University of California, Berkeley, as

research virologist and associate professor, becoming professor of virology in 1960. Since 1974, he has been professor of molecular biology.

### Michael Smith

A professor of biochemistry at the University of British Columbia, Smith is known worldwide for his research in the biochemistry of nucleic acids. His technology has been used extensively by molecular geneticists and biotechnologists.

He is a fellow of the Royal Institute of Chemistry in London, the Royal Society and the Royal Society of Canada and is a member of the Canadian Biochemical Society, the American Society of Biological Chemists, the American Association for the Advancement of Science, the Society of Sigma Xi and the Genetics Society of America.

At UBC, Smith received the Jacob Biely Research Prize in 1977, and was named distinguished faculty lecturer in the faculty of medicine in 1981. Other academic recognition includes the Boehringer Mannheim Prize of the Canadian Biochemical Society in 1981, the gold medal of the Science Council of British Columbia in 1984 and an international award from the Gairdner Foundation in 1986.

In addition to his academic duties, Smith has served on grants and review committees, including the Medical Research Council of Canada, the National Cancer Institute and the Alberta Heritage Foundation for medical research. He has served on the editorial board of *Nucleic Acids Research* for five years and has been a guest lecturer at various Canadian, American and Eurasian universities.

Born in England, Smith received his honors B.Sc. and PhD in chemistry from the Victoria University of Manchester. He spent four years as postdoctoral fellow at the B.C. Research Council and a year as research associate at the University of Wisconsin before he was appointed head of the chemistry division at the Fisheries Research Board of Canada's Vancouver laboratory. He joined UBC in 1966.

Concurrent with his university appointment, he has been career investigator with the Medical Research Council of Canada. O

## Meetings for the mind

### Continuing Education offers winter learning program

Pursue an interest, develop a new skill or broaden your understanding of a new subject like French or investment this winter. Continuing Education invites you to explore "Meetings of the Mind," this season's selection of non-credit courses offered at the University.

Program manager Louise McMillan says two new courses for business people taught by image consultant Ellen Case will enhance professional skills. "Business Etiquette in the '80s" and "Successful Selling and Image Strategies for Women" will provide insights into gaining that competitive edge on the job.

Anyone still reeling from the recent stock market crash won't want to miss "Investment Alternatives," taught by three financial advisers. The course will be relevant to everyone from beginners to those who already have a little investment savvy.

In "No Longer Together," taught by Prof. Sam Luker, Family Studies, participants who are newly divorced, separated or widowed will seek ways of reducing anxiety, bitterness and sadness. Lectures and discussions will help people understand the separation process.

A new gardening series offers three courses on "Herbaceous Plants," "Annuals" and "Vegetable Gardens."

Computer courses have become increasingly popular, and a new course this winter, "Introduction to DOS and the Personal Computer," will help novices become computer-literate. For more advanced computer buffs, another dozen courses will be offered on such subjects as Lotus, dBase and WordPerfect.

True wine connoisseurs—or those who wish they were—will enjoy "Wine Appreciation I" and "Wine Appreciation II," with Prof. Ron Subden, Microbiology, who holds certificates from the British Wine Education Guild.

With free trade talk buzzing, "Free Trade: Yes or No?" will explain how the deal may affect Canadians in years to come in terms of culture, sovereignty and economics. Other new political courses include a look at "John F. Kennedy: The Man Behind the Myth" and "The Soviet Union Today."

A course on "Great Books" will introduce participants to Plato, Machiavelli, Shakespeare and John Stuart Mill, and give participants an opportunity to discuss how their works have helped shape the western world.

For Shakespeare enthusiasts, a new arts course entitled "Shakespeare's World" offers lectures and trips to the Stratford Festival for four plays.

A course on "Mystery Writing" should take the intrigue out of the publishing and writing fields, and "Art for Amateurs and Connoisseurs"

will give participants a chance to explore the fine and decorative arts.

In ever-popular language courses, participants can choose from a wide assortment, including "How to Learn a Language," "Business Communication in French" and courses in French, Spanish, German and Mandarin Chinese.

For those who have always wanted to attend university, "So You Want to Go to University/Study Skills" will explain what university is all about. Student life, administrative concerns, listening skills and other topics will be discussed.

Certificate programs offered this session include programs in personnel administration, human resources management, communication, and French as a second language.

The 50-course winter program also includes such continuing favorites as "Calligraphy" and "Singing for Non-Singers" as well as a new one-day session on "The Art of Conversation." For a complete listing, call Continuing Education, Room 160, Johnston Hall, Ext. 3957. O

## Letters to the Editor

### Town-gown relationships

Re: your recent article on our new president, it is of concern to a number of us that we couldn't find someone who is willing to relocate into the Guelph environment. It's almost like being half-dressed. It used to be that we were interested in building our "town-gown" relationships.

We suppose it's understandable that a corporation in the era of "packaged presidents" and "just-in-time" should expect the minimum inventory to arrive by nine, with nothing left by five. What's happened to our University? As Bob Dylan said: "Something's happening and you don't know what it is... do you, Mr. Jones?"

Prof. Jim Stevens, Physics,  
Prof. Michael Coviera,  
Chemistry and Biochemistry.

## Briefly

### African students meet

The African Students' Association will hold a general meeting Jan. 22 at 5 p.m. in Room 116, Crop Science building. A new executive will be elected. New members welcome.

### Elsie MacGill award

The Elsie MacGill Memorial Award, consisting of \$5,000 and a sculpture by Maryon Kantaroff, commemorates the life and achievements of MacGill—a professional engineer and a leading figure in women's issues. Nominations are invited of Canadian citizens residing in Canada who have made an exceptional contribution in the fields of education, science, technology or poverty relief. The funds must be used to improve the physical environment or to provide equal opportunities for women or disabled persons through a registered charity, to support research concerned with engineering, applied sciences or women's studies at a Canadian university, or to further the recipient's postgraduate education in engineering, applied sciences or women's studies at a Canadian university. Candidates must be proposed in writing by two or more persons not related to the nominee. Send nominations by May 1 to the Elsie Gregory MacGill Memorial Award Selection Committee, 45 Oakmount Rd., Apt. 205, Toronto M6P 2M4.

### Singers sought

The University of Guelph Choir is beginning its program for the winter semester. Experienced singers are welcome. Practices are Wednesday evenings at 6:45 p.m. in Room 107, MacKinnon Building.

### Convocation parking

During winter convocation ceremonies Feb. 5, parking lots P23, P24 and P44 will be reserved for visitor use. Alternate parking for regular users can be found in lots P7, P14, P15, P17, P19 (front section) and P48. Anyone holding a premium parking permit for P24 will be allowed to park in the designated premium parking zone.

### Intro to NetNorth

A introductory session on NetNorth will be held Jan. 27 from 10 a.m. to noon in Room 212, ICS building. The seminar will introduce NetNorth as a means of exchanging information in Canada and worldwide, and demonstrate how to send and receive mail through the network and how to use the various features available in the system. A knowledge of basic CMS commands is required. To register, call Computing Services at Ext. 8888 or come to Room 204, ICS building.

Continued on page 7.

## Rubin to deliver Chappel lecture

Dr. Harry Rubin will deliver the inaugural address in the Chappel Lecture in Biomedical Sciences Feb. 4 at 8 p.m. in Room 149, MacDonald Hall.

The noted medical scientist in cancer research will discuss popular theories on cancer-causing genes.

The lecture, hosted by OVC, is free and open to the public. O



## IN GOOD CONSCIENCE: Can the University continue the Sulawesi Project?

Recent references in *At Guelph* to the University of Guelph's Sulawesi Regional Development Project in Indonesia ("White Paper on Rural Resources," Oct. 28, 1987, and "Sulawesi Positions," Dec. 16, 1987) raise an important question for the University's students, faculty and staff.

Can our University honestly justify continued collaboration with a political regime that is reliably and internationally known to be guilty of the mass murder of its citizens, totalitarian repression of civil rights, systematic torture and imprisonment of dissenters and their families, often forcible relocation of hundreds of thousands of its inhabitants every year, genocidal invasion of tribal and ethnic-minority regions and continuing large-scale deforestation of tropical rain forests?

No one can responsibly deny any of these facts concerning the Suharto regime of Indonesia. They are amply documented by scholarly sources in all the relevant fields and by human rights organizations such as Amnesty International. Yet, it is under this government's authority and direction that the University of Guelph's Sulawesi Project has been operating since 1984 in "support of institutional strengthening" (*Sulawesi Report No. 2*, October 1985).

As the University's \$12-million contract with the Canadian International Development Agency (CIDA) to act as Canadian executing agency for assistance of this regime comes up for renewal in 1989, it is important that we consider some unpleasant facts that have been so far evaded.

In 1965, the Suharto government, for which our University currently provides computerized information systems as a source of power and authority, was illegally imposed on Indonesia by a bloody military coup. An estimated one million civilians were murdered by government-directed massacres. Since that time, the Suharto regime has appropriated for itself dictatorial control over every organization in the country. Independent unions have been abolished, strikes are outlawed, grievance procedures do not exist and complaints to government authorities about working conditions are subject to punishment as "slandering reports." An indication of the nature of its rule is a 1984 case reported by Amnesty International in which 24 people were sentenced to 10 to 15 years imprisonment for reading a banned leaflet in public.

All political activity in Indonesian villages is prohibited to "protect" the villagers from opposing viewpoints; constitutional guarantees of the most basic civil rights are routinely violated by the government's secret police, KOPKAMTIB; newspapers, magazines and books are subject to censorship; and the ideology of the ruling Golkar Party is prescribed in all educational institutions. Arbitrary arrest and torture of "political prisoners" (tapols) is extensive, and includes relatives and friends of perceived dissidents, people without proof of identity and victims of personal vendettas. Tribal communities, suspected unorthodox Muslims, "communists" or members of the Chinese minority are special targets of persecution, torture and murder by the Suharto regime. In the case of East Timor, a briefly independent island in the region, the Indonesian military has slaughtered or starved an estimated 250,000 people since 1975 for resisting Indonesia's illegal invasion and takeover of its territory and government.

In economic terms, Indonesia is a resource-rich nation whose production is geared for export to wealthier societies like Japan, as well as for exploitation of its mineral and other resources by multinationals like Canada's Inco Ltd. Canada is indeed near the top of the world's business investors and exporters to Indonesia. (This helps explain our government's and CIDA's ties with the Suharto regime, which relies for more than 20 per cent of its total government revenues on foreign "aid.")

The domestic priority of the Indonesian economy seems to be to enrich the Suharto regime's ruling elite, whose members have been reported by the *Third World Quarterly* (January

1987) to have converted Indonesian assets worth billions of dollars to their private possession. After such external and internal claims have been satisfied, the per capita income left for the Indonesian people themselves is \$570 a year, according to CIDA's own reports on the country. Some 60 per cent of the population receives 15 per cent of the national income, and more than 50 per cent are living below the World Bank's absolute poverty base.

Part of the government's solution to the structure of mass oppression and exploitation it presides over is to relocate by "transmigration" schemes millions of its poorer citizens to sparsely or tribally inhabited lands for agricultural deforestation and "development."

It is with this kind of overall regional project that the University of Guelph has been technically assisting the Indonesian government in Sulawesi. It is called "integrated rural development." The problem is that whatever rhetoric is used to characterize the Sulawesi Project, it is explicitly under the detailed control and direction of the Suharto regime.

"This is an Indonesian project with Canada providing advice. The emphasis of Canadian assistance should be advising and not doing," (*Sulawesi Regional Development Inception Report*, Guelph: University of Guelph, November 1985, p. 20).

The University of Guelph is not responsible for the policies it helps to implement, nor for evaluating their success in achieving the goals the project claims to be pursuing. It is merely a technical functionary in a chain of command from the highly centralized Suharto government, whose goals, priorities and methods determine or contextualize whatever is done by the Guelph Sulawesi team. As the University's project manager put it in *Sulawesi Report No. 4*, 1986, the project is a matter of "centre strengthening" and like "jumping on a moving train." There is no independent means or process of assessing the support of the project by the Indonesian people affected by it, nor has the University team established any such objective check.

The Suharto government's overall "development" scheme in Sulawesi has also been internationally criticized on environmental and agricultural grounds, as was recently reported in an article entitled "World Bank Seeks to Clean Up a Host of Destructive Projects" in the *Globe and Mail's* "Report on Business" (July 23, 1987): "Since 1983, at least six different subcommittees of the U.S. Congress and . . . non-government organizations such as the U.S. World Wildlife Fund, Canada's Probe International and the British International Institute for Environment and Development have focused on the 'fatal five' projects. (These include) an Indonesian resettlement scheme to move tens of millions of citizens from the crowded inner

islands of the archipelago to the tropical forests of Kalimantan, Sulawesi and Irian Jaya. Critics say the outer islands have poor soil and that by the end of the decade, settlers will have destroyed millions of hectares of tropical forests in their search for arable land on which to grow food."

Apart from the CIDA funds that relevant offices within the University receive for technical assistance with one part of the Sulawesi development program, the University does not benefit from its continued involvement in the scheme. It is and will increasingly become a moral and scholarly embarrassment to the whole academic community.

Such involvement seems, moreover, in express violation of the University's commitments by the University of Guelph Act to the "betterment of society" and to the "moral development" of its members. In particular, it seems to violate the University's own specific Senate guidelines on *Involvement in Development Assistance Projects in Foreign Countries*, which was approved December 1983). These guidelines warn against

the University becoming "committed to a project that is morally indefensible and gives rise to public criticism." They emphasize that "the University has an obligation to protect its integrity" and to ensure that its resources are used in ways that "projects carried out in countries with repressive governments post special dangers for the University, because of the possibility that they may be subverted by (that country's) local officials to achieve unsavory ends."

If, as these guidelines counsel, we seriously "take account of all relevant factors and circumstances . . . of the social and political conditions in the host country," there seems to be only one way of deciding the issue with integrity. The University cannot in good conscience or consistently with its own constitutional aims and guidelines renew its contract to perform subordinate functions for the Suharto regime of Indonesia via the Sulawesi Project.

Prof. John McMurtry,  
Philosophy.

## Concert in aid of drought-ridden Sahel

A benefit concert on campus next month will aid a local project dedicated to improving the water supply in the drought-ridden Sahel region of North Africa.

Anagnoson and Kinton, piano duo, and Judith Crocker on piano, Celtic harp, flute and synthesizer will perform at a concert sponsored by UFS Sahel (Utilization of Fossil Seas of the Sahel) Feb. 2 at 8 p.m. in War Memorial Hall. The African Students' Association will present a fashion show of traditional African dress at the fund-raising event.

UFS Sahel is a non-government organization founded two years ago by Fergus resident Corinne Willock, who learned of the existence of eight enormous basins of fossil waters under the Sahel — the continent-wide zone bordering the Sahara desert — when she was working in Nigeria in the 1970s. The water, trapped 20,000 to 30,000 years ago during the last Ice Age, was discovered by geologists exploring for oil. UFS

Sahel is exploring the viability of using these waters to provide irrigation for windbreaks of fast-growing trees and shrubs to help reclaim land constantly being lost as desert sands blow in from the Sahara.

"Extensive zones of greenbelts could recreate the patterns of air circulation, which in turn could lead to increased rainfall in such regions," says Willock. "This would permit the return of people who have moved south . . . and enable them to produce food for their own subsistence."

Several campus people serve on the board of directors of UFS Sahel: Chief librarian John Black, Prof. Archie MacKinnon, director of the Centre for International Programs, Profs. Vernon Thomas and John Fryxell, Zoology, and Albert Tenga, a PhD student who comes from Ghana.

Tickets for the concert are available at \$10 (\$5 for students) at the box office in the University Centre, the Bookshelf Cafe, Birdland Music in Fergus, and Wellington Fare in Elora.

## OPEN HEARING ON INTERNATIONAL PROJECTS

The President's Advisory Committee on Social Responsibility is to examine the ethical considerations for University involvement in international development and research projects.

Those who wish to provide input to the committee are requested to make their intentions known by Feb. 22 to Micki Jones at Ext. 6759 or to the University Secretariat, Level 4, University Centre.

The committee will accept a written report or a verbal presentation, which may be given at an open hearing March 10 from 9 to 11 a.m. in Room 103 of the University Centre. ○

## University Centre update

The University Centre board reports a surplus of \$110,764, after capital items, in its 1986/87 annual report. UC director Ron Collins says the centre ended its financial year April 30, 1987, with a surplus of \$212,412 before capital expenditures, major repairs and replacements — \$93,541 more than originally forecast.

Collins says the budget for the 1986/87 fiscal year called for a surplus of almost \$150,000 before capital items. This year, however, "we're forecasting a break-even budget after a number of capital expenditures."

Collins says the UC, unlike private sector operations governed by a straight profit motive, operates to break even over the longer term.

Some of the proposed expenditures for this fiscal year include a computer centre offering word processing and photocopying services to the University community and refurbishment of a number of meeting rooms.

Collins believes that for the most part, the centre has been successful in terms of programming and activities. One disappointment last year was "Junkamania," a sale of used furniture and household goods for students furnishing apartments that proved less than popular. "A lot of the things we come up with are admittedly off the wall, but we'll try almost anything once or even twice," he says.

At the moment, Collins is working on filling the space in the centre vacated by P. Lawson Travel. He expects a new travel centre to be in place by sometime next month.

One of the director's main concerns is the problem of space. "We simply don't have enough space at this point to satisfy the needs of the University community," he says. "And we have one of the most active campuses in Canada in terms of programs."

Collins hopes that eventually the UC might co-operate in a joint venture with the University and the Central Student Association to build an addition to the centre. ○

## Faculty, staff & student activities

Former PhD graduate student Bernadine Strike and her supervisor, Prof. John Proctor, Horticultural Science, have been awarded a U.P. Hedrick Award by the American Pomological Society for a manuscript entitled "The Importance of Growth during Flower Bud Differentiation to Maximizing Yield in Strawberry Genotypes." The award, one of two given by the 1,000-member society, is offered annually to encourage graduate students to submit manuscripts relating to cultivars of deciduous, tropical or subtropical fruits. ○



# Report of the President's *ad hoc* Committee on Internal Communications



## Executive Summary

The fundamental principle underlying this report is that our University is a true community whose single, overriding purpose is the acquisition and dissemination of knowledge. The participation of members of the three main constituent bodies — faculty, students and staff — is equally necessary and valuable, and we must communicate in ways that foster their participation and sense of worth.

Of the 27 major recommendations in this report, we single out a few as absolutely essential to improved internal communication on campus.

Almost without exception, people have expressed a need for timely, candid and accurate information. Each member of our University community has a personal responsibility to listen, to read, to speak — openly and honestly. Those elected by their peers or appointed to represent a group have a special responsibility to solicit views and to transmit information back. Ultimately the University's leaders, by setting a tone and an example, determine the relative importance people will place on effective communication in their own spectrum of duties. The philosophy of "management by walking around" is a focus for several recommendations (14, 18 and 19), including an

emphasis on such informal mechanisms as regular interchanges and exchange of information over coffee (Recommendation 13). There is also a need, at least for an interim period, for a person to facilitate implementation of the committee's recommendations, to monitor progress and to act as a focus and resource person (Recommendation 24).

Although face-to-face communication encourages dialogue, information flow and a feeling of involvement, it is clear that an organization as large as ours needs a dedicated internal communications vehicle. The committee felt that *At Guelph* should continue this role (Recommendations 10, 11 and 12), and that external communication needs should be addressed in other ways.

Our Senate is one of the largest and most democratically constituted in the province, but many on campus view the decision-making structure as having few formal mechanisms for obtaining information about or contributing to policy-making discussions. Recommendations 6, 7 and 22 suggest a review of the Senate committee structure and regulations with a view to publicizing agenda and other important information, rationalizing mandates of committees and subcommittees, and establishing feedback mechanisms between committees and constituents.

Making a commitment to improved internal

communications has widespread implications for personnel policies. At the same time as we emphasize the formal mechanisms by reviewing present practices and policies (Recommendation 4), we must also review, in positive and supportive ways, the present skill levels, with a view to providing support for building on and improving those skills throughout the University community (Recommendation 1).

In spite of the problems identified in this report, there are good reasons to be optimistic. Without exception, all of the people who talked to the committee or to one of its members really care about the University of Guelph as a place of higher learning and as a working environment. They all have ideas about how to improve the environment and how to foster more effective communication.

## Mandate of the committee

The *ad hoc* Committee on Internal Communications was established in July 1987 by President B.C. Matthews.

A memo to faculty, staff and students announcing the committee set out the following terms of reference:

- To review and evaluate instruments and procedures now in place for the purpose of

general internal communications among all members of the University.

- To propose additional ways to enhance both formal and informal communication within the University community.

Members of the committee represent various constituent groups within the University — faculty, undergraduate students, graduate students, support staff and professional staff. Members of the committee were: Barbara Abercrombie, University Secretariat; Dennis Blake, graduate student; Mary Cocivera, Alumni Affairs and Development; Prof. Ramon Hathorn, Languages and Literatures; Prof. Elaine McCreary, Rural Extension Studies; Allan McInnis, Residences; Christopher Moore, undergraduate student; Ellen Pearson, Library, chair; and Sheila Trainer, Zoology.

The committee solicited input from the University community by sending a memo to deans, directors, chairs, the Faculty Association, Staff Association, Professional Staff Association and student government groups asking for examples and descriptions of methods of communication used within their area. More than 50 individuals provided written or oral input to the committee. A summary of the written responses to the memo and a list of those who provided input is available for consultation in the University Secretariat's office, Level 4, University Centre, Ext. 2114.



## The climate on campus

The committee's terms of reference did not specifically cite concern about the climate on campus, but the committee's fact finding revealed high levels of frustration, low morale and feelings of insecurity on campus. It appears that over the last 10 to 15 years, the morale among faculty and staff has deteriorated. Some of this is undoubtedly due to the competition for scarcer resources, but it may also reflect the perception of many within our University community that they have little control over their working environment. Such malaise is hardly surprising in an organization experiencing a decline in resources and confronting indicators that external groups including politicians, the press and the public at large no longer hold post-secondary education institutions in high regard.

The pressure of ever-increasing workloads and the rapid turnover of academic administrators, both typical of a university environment, help to create a climate in which a commitment to good communication is difficult to sustain.

We live and work in an environment of rapid change. On campus, the rate of change is reflected in many developments over the last decade — a new telephone system, new data communications systems, computer-based conferencing and mail system (CoSy), micro-computer networks, shifting provincial funding, legislation in labor relations, human rights and women's increasing role in the workforce. The accelerating rate of change is contributing to the feelings of insecurity and lack of control over the environment.

Many faculty and staff feel as though they have little if any input into decisions that affect the direction of the University and their lives. Among the examples pointed out to the committee were the early retirement plan and the strategic planning process and document. In these cases and in others mentioned to us, faculty and staff felt they learned about things only after they were a "fait accompli."

Faculty and staff believe they are the last to know about major events and sometimes find out about developments on campus by reading *The Daily Mercury*. This is what happened, for example, with the Puslinch gravel pit.

When input is sought, faculty, students and staff often feel there is inadequate time to prepare a response. The invitation by the presidential search committee was a welcome initiative, but many people on campus received the invitation the day of the meeting. The timing led them to wonder if their presence really was desired. Student government leaders have some suspicions that their input was not welcome on the strategic plan draft, which was released in June, when few students were on campus, and on which responses were expected by Aug. 30, before the fall semester began.

The three-semester system creates pressures unlike those in universities that operate on a two-term system. Administrative functions like preregistration, registration, drops and adds and counselling take place three times a year instead of once or twice. Faculty, staff and students feel the inexorable time pressures. In order to meet time deadlines, priorities are set, and too often communication to internal constituencies is sacrificed.

In spite of these problems, there is reason to be optimistic. Without exception, all of the people who talked to the committee or to one of its members really care about the University of Guelph as a place of higher learning and as a working environment. They all have ideas about how to improve the environment and foster more effective communication. They want timely, accurate and complete information because they want to do their jobs as effectively as they can.

There are also successful, effective communication initiatives on campus. We can learn from these examples:

- Question-and-answer board in the Library;
- Display case drawing attention to faculty, staff and student successes in the College of Family & Consumer Studies;
- Coffee lounges where faculty and staff can chat casually;
- Town meetings on specific issues;
- Open forum by presidential search committee;
- More open budget information;
- Expanded *At Guelph*; and
- New faculty orientation sessions (Office for Educational Practice and the Library).

## Towards a healthy communications environment

In an ideal communications environment, there would be no surprises and no room for rumor to flourish, because everyone would be working from the same base of complete, unambiguous information. Although this goal may seem unattainable in an organization as

large as our University, there are some steps that can be taken to create a healthy communications environment.

First, an openness and willingness on the part of our senior officers to share crucial information should be evident. The publication of budget forecasts and strategic planning information and their submission to Senate in recent years has already opened up considerably the climate for informed debate. Meetings of Senate and Senate committee meetings have traditionally been open, a fact that should be better publicized.

Second, the opinions of students, staff and faculty should be actively solicited before decisions are made (for instance, in open forum meetings whose purpose is to examine alternative courses of action, not to relay a "party line"). To state the merits of a consultation process succinctly: "Touching base is easier than mending fences." Consultation will not work, however, if it is perceived that a change in outcomes is not possible. Different viewpoints should not be merely tolerated, they should be encouraged.

A healthy communications environment is characterized by the unimpeded transmission of messages up and down the organizational hierarchy or across structural boundaries, so that there is a close congruence of "perception" with "reality." This is important because, as one respondent told us, "In communication, perception is the reality."

If communication has become fraught with peril, it is because, in the current environment in which universities find themselves, so many of the messages have to do with change that is largely beyond our control. More than ever, it is necessary that people throughout our University share information about the progress of crucial policy deliberations and have an opportunity to contribute their views.

The content and style of delivery of messages about change also need to be carefully chosen, so that they serve to inspire, motivate and promote co-operation and creativity — even when the news is not favorable — rather than instill fear or lay down "dicta." At the same time, the recipients of such information have an obligation to carefully examine the facts before responding.

## Communication principles

Good communication requires a trusting environment. People within the community have to believe that the organization (as represented by those in positions of authority) cares about them and what they have to say. In a low-trust environment, even good communication systems will not work.

Communication is a two-way process. It involves receiving as well as sending messages. In large hierarchical organizations such as the University, most communication tends to be one way and filtered from the top down. Good communication goes beyond that. It also involves those at the top receiving unfiltered input from all levels of the organization.

Listening is an important component of communication — perhaps the most important part. Good communicators listen for information with understanding. Evaluation comes later. Listening is a skill that can and must be developed, particularly among those who supervise, manage or deal with people.

Managers or administrators may believe that addressing a group of faculty, staff or students to "tell it like it is" is good face-to-face communication. Those receiving the message, however, may view this as "unloading an agenda" and perceive that the speaker has no interest in hearing their responses, ideas and suggestions.

A university is devoted to the pursuit of knowledge, but our University is also an employer to 3,600 people who work full time and part time. A few comparisons with other organizations may be valuable in putting the internal communications issue in perspective. Highlights of surveys conducted in 1980 and 1984 by the International Association of Business Communicators are presented here because the committee heard similar comments from the faculty and staff at the University.

- Employees believe what they read, but they do not feel that what they have read is all there is to tell. A balanced coverage of controversial issues is essential to building management credibility.
- Supervisors are by far and away the number one current and preferred source of organizational information for employees. Most employees' perceptions of the organization for which they work are gained largely through everyday relationships with their immediate supervisors.
- There is a need to strengthen communication between supervisors and employees. Training supervisors in listening, feedback and performance appraisal is one of the obvious starting places.
- Employees overwhelmingly prefer personal

contact over other forms of communication.

- Few employees believe that management listens as well as it talks, or that it acts on employees' ideas.

## Barriers to good communication

The committee observed that there are several barriers to effective communication, some of which have been noted by our respondents. A lack of time created by increased work pressures causes many administrators to assign a low priority to communication, because the "product" of good communication is not as readily visible as the outcome of other day-to-day forms of activity. Some respondents suggested that the semester system creates additional pressure for the University of Guelph through its frequent repetition of administrative tasks and the short deadlines it imposes on students, faculty and staff.

Some administrators (especially academic administrators) believe that they are already expert in communicating and do not need further instruction or help.

The committee learned that information is withheld from students, staff and faculty by some persons in power for reasons that strike us as spurious. Examples include budget information, mailing lists and individuals' personal files.

We suspect that some administrators have a low appreciation of the community's communication needs.

There is a natural reluctance on the part of most employees to approach their superiors with an unpleasant message, which is compounded if the message is ignored, brushed off or not dealt with.

Examination of the components of communication (constituencies, carriers, messages) and the collective and personal responsibility we bear for communicating effectively with each other will reveal ways in which these barriers can be removed.

## Components of communication

*Constituencies, carriers, messages*

### Constituencies

The fundamental perception underlying the committee's report is that of the University of Guelph as a true community whose single, overriding purpose is the acquisition and dissemination of knowledge. In this community, the participation of three main constituent bodies — students, faculty and staff — is equally necessary and valuable. There are other members of our University community, such as the chaplains, whose participation is essential but who are often left out of the communications network because their names do not appear on standard mailing lists (i.e., of University employees).

The communication system within the University should be designed to foster a sense of participation and worth and eliminate any perception of a caste system in which one group or another is relegated to inferior status. It should meet people's needs for timely, complete and accurate knowledge (receiving messages) and include opportunities for influencing policy decisions (sending messages). Finally, it should place responsibility on all members of the University community for communicating effectively. Our recommendations in this and subsequent sections will attempt to meet these criteria.

People in various sectors of our community have indicated to the committee that some of their communication needs are not being met. Many respondents complained of the lack of opportunity to participate in discussions leading up to decision making, or resented being advised of decisions after the fact. Members of all three groups complained of being treated as "second-class citizens." In the absence of hard information, many people rely on the rumor mill, with all its inaccuracies, for their understanding of what is really happening in our University.

Although the University of Guelph has one of the largest and most democratically constituted senates in the province, its decision-making structure (Senate, Board of Governors, the President's Advisory Council and other University committees) is viewed by many on campus as exclusionary, partly because there are few formal mechanisms for feeding information and perceptions into these deliberating bodies and obtaining information about or contributing to their deliberations, especially at the early stages of policy-making discussions.

Making a commitment to improved communications has wide-ranging implications for personnel policy. By positing effective communication as a goal in all our activities, we are saying that hiring, promotion and training practices should reflect that commitment. As is the case with the University's performance review system, developing human potential,

rather than productivity, should be the watchword of all communications. If attention is paid to developing human relationships within the University, more effective work activity will follow as a consequence.

## Major recommendations

- 1) That the president, vice-presidents, deans and directors assess the communications skill level of officers reporting to them and recommend strongly that they enrol in skill-building courses if necessary.
- 2) That the president, vice-presidents and the Personnel Department jointly ensure that all selection committees keep communication skills in mind when seeking persons to fill positions of leadership in the University.
- 3) That Personnel, in consultation with the appropriate officers, enhance its orientation program for all new employees of the University, to be offered at regular intervals throughout the year, that this program be regularly updated and that new employees be required to attend the program.
- 4) That Personnel, through its programs (i.e., performance review, merit pay, job descriptions, training programs), explicitly acknowledge and emphasize the development of effective communication as a means of enhancing the human potential of the University's employees. Job descriptions should clearly describe responsibility for communicating to those above and below in the organization chart.
- 5) That Personnel draw up an inventory of essential communication skills and design courses to improve the skill level of key communicators on campus. Such skills might include listening, eliciting feedback, effective telephone communication, chairing meetings and managing change.
- 6) That the Senate Committee on University Planning and Committee on Bylaws and Membership develop a set of guidelines clearly setting out the obligation of senators and Senate's representatives on the Board of Governors and other University bodies to inform their constituents of major policy discussions in Senate and its boards and committees, both before and after their adoption.
- 7) That the president take steps to ensure that the terms of reference of each Senate and University committee include a means of publicizing its mandate, a mechanism for soliciting contributions from the community and holding a pre-decision debate on important issues, and reporting back to the community on the committee's recommendations and decisions regarding their implementation.

## Faculty

Perhaps because the scholarly/scientific life's work of an academic is so singularly self-regulated in company with peers, faculty are particularly concerned with communication that promotes the self-governance of the community. Faculty expect and require adequate time and opportunities for consultation on policy matters related to self-governance. Several examples of notably short lead time to decision deadlines are mentioned elsewhere in this report. For instance, six months were recently given to prepare a report on the "living and learning needs" of international students at the University of Guelph, in contrast with the two years the University of Montreal considered necessary to fully consult on the needs of its international student body.

A second special communication need of faculty is publicizing faculty activities. Many regrets were expressed about the deletion of this report from *At Guelph*. One benefit of publicizing is to stir the pot, creating cross-campus linkages or stimulating new activities through learning from each other's initiatives. A more subtle and perhaps even more valuable benefit than mere circulation of ideas and information is the acknowledgment of a job well done. Informal, non-monetary recognition to faculty that their research, teaching and service to the University are valued and appreciated would go a long way toward improving morale and strengthening commitment to the University.

## Students

Students as a group have special communication problems that should be addressed if they are to feel as other than transients in the University community. Students are highly mobile with no fixed campus "address" (i.e., desk or office); they frequently cannot afford mass mailings to their peers to inform them of events of special interest to students; and University office hours do not correspond to the hours of many part-time students (so that part-time graduate students find it difficult or impossible to gain access to their mailboxes, for



example). It would be helpful if other members of the community recognized the importance of oral communication to the student population by such means as allowing students three or four minutes before the start of classes to make announcements.

Student participation in undergraduate and graduate policy/curriculum committees at the departmental level (and the creation of such committees where they do not currently exist) would contribute immeasurably to the students' comprehension of, and identity with, the university educational system. The chairs of the academic departments could encourage such participation.

In addition, some students have told us that the election or appointment of student senators by the various representative student governments would give these senators a more representative voice, and would link them with constituencies that are now starved for interaction with the University Senate.

On the individual level, students need constant reminders from the student government, faculty and administration that the University does provide information and aid in the areas of orientation, counselling and career services.

#### Major recommendation

- 8) That the Committee on Bylaws and Membership conduct a review of regulations governing student representation on Senate with a view to proposing, where feasible, recommendations designed to address the following:

- Students' responsibility to their electorate;
  - Lack of resources available to student senators for communicating with other students;
  - The possibility of replacing at-large student representation on Senate with appointments from the Central Student Association, the Graduate Students' Association and the seven college student councils;
  - The *ex officio* appointment of the GSA 1st vice-president to Senate, in recognition of the similar status offered the CSA vice-president, internal;
- and that the committee report to Senate by March 1988.

#### Other groups

How we communicate with groups such as retirees and alumni conveys important messages about the value we place on their contribution to the life of the University community, both while they were here and after they have left the University. Although both groups are marginal in terms of their inclusion in an internal communications policy — being neither fully "internal" nor "external" constituencies — there is a need to examine their special needs, acknowledging that retirees and alumni are an important resource and that many continue to feel a close bond with the University community.

#### Major recommendation

- 9) That the administration investigate ways and means of recognizing in a more sensitive fashion the contributions made to the University community by retirees, and of ensuring avenues of continuing contact with the University for those who desire it.

### Carriers of communication:

#### The media

In its examination of the instruments and procedures now used for general internal communications within the University, the com-

mittee found much to commend. There is evidence of creativity and a willingness to adjust to new pressures and demands. *At Guelph*, for example, has changed its editorial perspectives to include more coverage of discussions leading up to policy formulation and to encourage dialogue on issues of concern to the community. The paper has also switched to a more economical but larger format to meet the requests of the community for more information, i.e., on faculty research.

Our University has pioneered in the development of a computer conferencing system that is easy to use and provides instant information and the opportunity for dialogue to those with access to it. Finally, there is a wealth of techniques being used by departments across the University. One technique that has proven especially successful, for example, is the Library's question-and-answer board.

There are three principal means of communication in the University — the printed word, face-to-face contact and electronic media. Printed communications include memos, letters, newsletters, calendars and information pamphlets, newspapers, letters to the editor, annual reports, the "Memorandum from the President," posters and notices, and suggestion boxes. Messages conveyed in writing typically exemplify one-way communication (usually top-down).

Face-to-face contact includes departmental and other meetings, committees (formal and *ad hoc*), an "open-door" office policy, meetings with invited speakers, performance reviews, "management by walking around" and a host of daily, informal contacts usually known as "the grapevine," which may be cultivated in the Faculty Club, coffee rooms, the Grad Lounge and other social settings. Communication of this type is typically two way and can be top down or bottom up. The less spontaneous the event, the more likely the communication is to be top down.

Electronic media used on campus include telephone and telecommunication, computer conferencing and radio. With the exception of radio (other than "phone-in" programs), these electronic media support dialogue, and there is considerable freedom for sending messages either from the bottom up or the top down. They are commonly used for, but not limited to, one-on-one conversations. Electronic communications lack the immediacy and visual cues present in face-to-face contact.

### Carriers of communication:

#### Printed media

Printed media are usually chosen for sending precise, unambiguous formal messages that can be retained for future reference. As noted above, they tend to be used for one-way, top-down communication, relying to some extent on the passivity of the audience. The "Memorandum from the President," for example, is a good means of capturing the attention of the audience, but because it rather starkly exemplifies a top-down message to which no reply is solicited, it should perhaps be used sparingly, and only when the president's *imprimatur* is necessary to reinforce the announcement.

Printed messages provide little opportunity for participation by the receiver. This method of communication lacks immediacy, particularly where slow distribution (more than 24 hours) is commonplace. In addition, some crucial communications, such as policies and procedures, are badly written and misunderstood. The volume of paper circulating within the University is seen by many as overwhelming and costly. Printed vehicles are seen as susceptible to manipulation by the message sender. At times there is a confusion of audiences (i.e., between internal and external recipients), resulting in messages that are not clear and satisfactory to anyone.

#### Major recommendations

- 10) That Public Relations and Information establish different printed news vehicles for external audiences and retain *At Guelph* as the internal news vehicle.
- 11) That the editorial staff of *At Guelph* clarify its role and mandate for publication in its editorial policy, continue to encourage community contributions and design a format that clearly distinguishes between comment from the University community and "official" administrative announcements.
- 12) That an editorial advisory board be established to monitor the operation of the editorial policy of *At Guelph* and to assist the editor in resolving editorial questions; this board is to contain faculty, staff and student representation and the communications catalyst (Recommendation 24).

### Carriers of communication:

#### Face-to-face communication

Face-to-face communication encourages dialogue and a flow of messages both up and down the hierarchy. It increases the feeling of involvement by members of the University community and is an important source of information for most people. Unfortunately, informal communications are often based on misinformation and rumor. Opportunities for response are sometimes illusory as, for example, when an administrator initiates a conversation or meeting to "discuss" a policy that is already decided. For face-to-face communication to succeed, there must be give and take between the parties and evidence that the parties are listening to each other's message.

Our University's hierarchical organizational structure and its geography tend to isolate people holding senior administrative posts and discourage lateral communication among parallel but separate units. The committee feels strongly that more, rather than less, informal, everyday face-to-face contact should be taking place and that people at all levels in the hierarchy should be encouraged to take advantage of such contact to spread accurate and up-to-date information. The lack of space available for such informal exchange of information is to be decried.

#### Major recommendations

- 13) That steps be taken by the administration to provide space in each working area for coffee breaks and that the president, vice-presidents and other administrative officers strongly encourage staff, faculty and students to use the facilities (participants need not be in the same department)
- 14) That the administration, through the vice-presidents, deans and directors, by means of personnel training programs and by personal example, promote more face-to-face communication between management and staff — for instance, by following the "management-by-walking-around" philosophy.

### Carriers of communication:

#### Electronic media

Electronic media offer a means of communication that is speedier than the written word and allows two-way communication without face-to-face contact. There is a lack of expertise on campus in using new electronic telecommunications media to their fullest, i.e., to convey messages to large audiences. Guelph's computer conferencing system, CoSy, suffers because not everyone has convenient access to a terminal. Because broad audience participation cannot be assured, CoSy is not generally used to disseminate crucial messages to a wide audience; this lack of crucial content is a further disincentive to present and potential users.

#### Messages:

#### Content, direction, timing

Communicated messages have an explicit content — their substance — but their direction and timing convey an implicit message as well. Recognizing the different types of content will help to ensure that the implicit content reinforces rather than detracts from the explicit content.

#### Content

##### Public relations publications or productions

Typically distributed to external audiences, some of these messages may have value for faculty, senators, members of the Board of Governors and students. They tend to extol successes and excellence within the University; their "look" is as important as their content.

##### Policy debates

Effective debate will happen only if adequate lead time is provided for community airing of an issue before the formal deliberative process reaches its decision phase. Publicizing Senate and Senate committee meetings, including the requirement for public input in committee mandates and clarifying the role of *At Guelph* as a vehicle for some of this debate will nurture participation.

##### Procedural information

Registration materials, calendars, student handbooks, faculty policies handbook and personnel materials fall into this category. The

information needs to be succinct and unambiguous and organized in a way that is convenient to the user. For example, it would be beneficial to graduate students for all information related to an individual department's program to be included in a handbook that is provided to each graduate student upon application to the program.

Graduate students who work as teaching assistants or laboratory demonstrators should have some knowledge of undergraduate programs and policies. Many Guelph graduate students are new to the University and thus have little direct knowledge of the undergraduate scene on campus. Providing all graduate teaching assistants with an undergraduate calendar would give them access to information about undergraduate policies and procedures and curriculum.

#### News and announcements

These time-sensitive and perishable messages should be distributed via the swiftest mechanisms available — CoSy, electronic bulletin boards, PhoneMail service, daily printed bulletins and posted notices on central bulletin boards. Weeding out "old" announcements from on-line services and bulletin boards would ensure that news is current and accessible.

#### Scholarly substance

Sharing of scholarly information across college and departmental boundaries through casual face-to-face meetings, seminars, colloquia and lecture series would foster a sense of pride in our individual and collective accomplishments. Individuals suggested many mechanisms for communicating such information: a directory of faculty research interests; an *At Guelph* column of scholarly projects and activities; "sharing" of visiting faculty with other departments and colleges; and annual lecture series that would attract an audience from across the spectrum of academic disciplines.

#### Direction

Messages move up and down a hierarchy and back and forth between peers. In a self-governing community such as the University, "incoming" can also describe messages that carry input from the University community to the decision makers. These incoming messages are vital to the University's health and well-being and should be encouraged. Outgoing messages emanate as policy and procedural decisions through the hierarchy. Care should be taken that the outgoing messages do not get distorted or lost as they move through the chain of command.

#### Timing

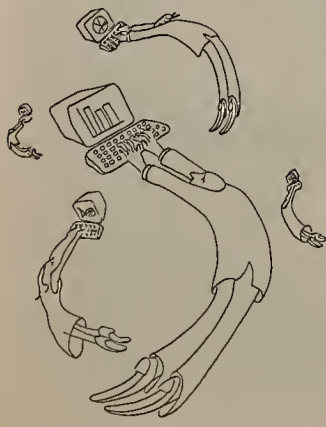
Appropriate timing of a message is essential to the credibility of that message. Invitations to participate in debate or events must be sensitive to the time pressures within the University community. Acknowledgment of a person's contribution or participation must convey sincerity through timeliness as well as content.

#### Major recommendations

- 15) That administrators provide more lead time for important announcements requiring a response — at a minimum, two weeks during term and one month during the summer.
- 16) That the administration set up suggestion boxes or a "private line" system under which a member of the community could phone, mail or discuss anonymously any matter with a responsible individual in the University, and matters of concern to several people could be published in a specially designated column in *At Guelph*. The public airing of such concerns would help to prevent distortion and rumor.
- 17) That the University-wide document delivery mechanisms be assessed and strengthened so that mailings intended for all or many members of the on-campus University community will reach all recipients speedily and at about the same time.

### Who is responsible for communicating effectively?

Members of our University community have expressed a need for timely, candid and accurate information, in sufficient detail to enable them to carry out their responsibilities effectively. Messages issuing from a number of sources in the administration, or from the same source, must be consistent with each other if an atmosphere of trust and confidence is to be preserved. In addition, people throughout the community seek opportunities for a two-way exchange of views. Confusing the message with the messenger ("shooting the messenger") is a classic error in communications that need not occur in an open and trusting environment.





#### Administrators:

Ultimately, our University's leaders determine, by setting a tone and an example, the relative importance people will place on communications in their own spectrum of duties.

When concerns are raised, people in the community have a right to know what action resulted and why. If action is not possible, the community's concerns must be acknowledged and an explanation given for the lack of a resolution. This explanation should be widely circulated, along with the names of responsible persons who can be contacted for more information. A striking example of a problem that has not been resolved to the satisfaction of users in spite of widespread and often-voiced concern is the air quality in several of our buildings.

Everyone subjects the success of the communications system to their own set of "controls" (monitoring and measurement of results), but only University administrators have the capability of evaluating success on a large scale and making corrections.

#### Major recommendations:

- 18) That senior administrators reassess their own and the University's priorities with a view to freeing up more time to devote to the process of effective communication.
- 19) That senior administrators set an example for their colleagues by participating in workshops or training programs designed to improve communication skills.
- 20) That the director of Public Relations and Information, in consultation with the president, vice-presidents, the communications catalyst (see Recommendation 24) and others as appropriate, draw up a comprehensive communications policy for the University that will embody the principles outlined in this report and clearly assign responsibility for implementation of the policy and specify a system of controls, and that the policy be published annually, be given to each new employee of the University and be made available in pamphlet form for students and other members of the community.
- 21) That persons receiving complaints or expressions of concern acknowledge receipt and respond with a report on how the issue was resolved, or why it could not be resolved to the satisfaction of the person(s) raising the issue.

#### Senate

If members of the community are to exercise their responsibility of contributing to policy formulation in our University, they must be advised of the correct means and time for making submissions or comments. A streamlined, easily understandable Senate committee structure would encourage such input. To the extent that they feel entitled and enabled to contribute to decisions, community members are less likely to demand a large, unwieldy "representative" composition.

#### Major recommendations:

- 22) That Senate's Committee on University Planning, with the assistance of the University Secretariat and the Committee on Bylaws and Membership, carry out a complete review of Senate's committee structure and regulations, with a view to proposing recommendations designed to:
  - Publicize the agenda of Senate and Senate committees;
  - Provide a directory of senators and Senate services that is widely available, i.e., in the policies manual;
  - Reduce membership on Senate committees, so that deans and others may be free to pursue other activities;
  - Rationalize the mandates of Senate committees and subcommittees;that it solicit the view of the University community on how Senate might improve communication with its constituents; and that it submit a report to Senate by April 1988.
- 23) That policy makers be advised not to debate or finalize policies affecting students during the months when there are few students on campus to participate in the debate.

#### Communications catalyst

We are concerned that the solutions we propose, like those in many other reports, ask existing people and groups to add to their current labors and do what they should have been doing but are not, or to do what they are doing to some extent, but to do it differently. The concept of a communications catalyst — a mentor and resource person — is a way to bring about constructive change in communications behavior and attitude and provide a focus for effective communication on campus. The communications catalyst would offer consultation and assistance, and would be seen as a

positive commitment to improving the communications environment on campus.

#### Major recommendations

- 24) That the president appoint a communications catalyst whose mandate would be to shepherd the internal communication recommendations into practice, to review and promote training programs, to identify gaps in internal communications and to provide some policy direction in the area of communications. This person would serve on the editorial advisory board for *At Guelph*. The appointee should be a trusted, senior member of the University community, and might be a faculty member appointed for a period of one or two years and given release time. The position and function of the communications catalyst would be reviewed at the end of a two-year trial period.
- 25) That, following consultation with individuals and constituencies on campus, the communications catalyst submit a report to the President's Advisory Council in May of each year of the appointment outlining any internal communication problems and proposing specific solutions, and that the contents of this report be made public (except insofar as they affect individuals).
- 26) That the communications catalyst carry out a survey of communication needs on campus.
- 27) That the communications catalyst be available to work with individual units or individuals, both teaching and non-teaching, to conduct a communications audit, to diagnose and to provide a prescription for action, and that such consultation be obligatory if a situation warrants. The agent for deciding should be the person to whom the unit head reports.

#### Each and all:

All members of our University community have responsibility for reading, for listening, for informing themselves and others, for conveying their views about policies and working conditions and for short-circuiting rumors they know to be false. People elected by their peers or appointed to represent the community on committees have a special responsibility to inform their colleagues of actions that may be contemplated and of decisions that are taken, and to solicit their views.

The committee believes that the principle of "cabinet solidarity" is worthy of broad application. To wit: all persons who are party to decisions and participate in policy-making processes should assume personal responsibility for their successful promulgation; if they find themselves unable to agree with a collective or majority decision or policy, they should disagree openly within the decision-making body and must not later engage in "sabotage" when it comes to implementing or communicating the decision or policy.

Listeners have an obligation to listen. Readers have an obligation to read. Individuals have an obligation to make their needs and wishes known in a constructive manner to the person or department whose responsibility it is to act on that need.

#### Conclusion

Improving communication is a long-term, ongoing process. The committee has identified a number of problem areas where improvement is not only possible, but achievable in the short term. Other recommendations will yield results only in the long term, but the committee believes that the benefits in improved morale and increased commitment will be well worth the effort.

#### Subsidiary recommendations

The committee believes these "subsidiary recommendations" are as important as the major recommendations, but their scope is not as far ranging and many could be implemented almost immediately.

- i) That Personnel create and maintain a mailing list (labels) for general University use that includes members of the community who are not on the University payroll, such as the chaplains, and regularly update it, i.e., to delete deceased persons.
- ii) That Personnel articulate a policy for communicating with retirees by persons or departments within the University that would recognize the desire of many retirees to maintain a connection with the University and promote its well-being, while respecting the desire of individual retirees for privacy.
- iii) That the telephone directory be expanded to include departmental listings as well as individual listings, a guide to services and an organization chart that reflects the functional organization of the University.
- iv) That *At Guelph* give explicit recognition to the contributions made by staff, students and faculty to the welfare of the University, and that the editorial advisory board monitor progress.
- v) That the co-ordinator of French-language services be asked to submit a report to the president on the feasibility of providing services to students whose first language is French.
- vi) That Public Relations and Information explore the possibility of issuing a daily bulletin listing upcoming events and carrying other important statements, to be delivered to each faculty and staff member and posted in prominent locations for students to read; this exploration is to include a study of a format (not necessarily paper) and a mechanism for distributing the bulletin. (An example, the *York Bulletin*, is available for consultation in the University Secretariat's office.)
- vii) That the bodies responsible for issuing frequently used forms of published communication such as the *Calendar*, the *Student Handbook*, faculty policies and administrative policies review them to make sure that they are well written and clearly understood by their audience, and take corrective action if necessary. In addition, the communications catalyst should from time to time review other forms of written communication to ensure that they meet these criteria.
- viii) That the dean of graduate studies strongly encourage the departments to ensure that graduate students applying to enter a program are provided with a handbook containing all information related to that specific program.
- ix) That Public Relations and Information continue to explore new ways and formats for packaging information to make it convenient for the various constituencies to use (i.e., in pamphlet form). (Some examples are available for consultation in the University Secretariat's office.)
- x) That distinctive *At Guelph* distribution boxes be placed in strategic University locations, such as residences, The Arboretum, the Macdonald Stewart Art Centre, the Library and the research stations.
- xi) That staff associations and bargaining units, particularly the Professional Staff Association, provide opportunities for the frequent interchange of "how-to" information and ideas among their members and hold regular informal meetings with their members to hear invited speakers from other areas of the University.
- xii) That training/retraining sessions in the use of ROLM phones and PhoneMail as communication tools be mounted and publicized by Communications Services.
- xiii) That CoSy be used to send important announcements to the University community (as an adjunct to other forms of announcement, until use of CoSy is more widespread).
- xiv) That a PhoneMail "information hotline," carrying topical announcements and information that changes daily, be set up and run by Public Relations and Information, and that the hotline number appear in each issue of *At Guelph*, next to the listing of events for the coming week.
- xv) That CFRU radio be asked to publish and distribute annual information about its services for broadcasting announcements to students to encourage use of this medium.
- xvi) That *At Guelph* continue publication of faculty research activities, as an important means of improving the lateral flow of information between colleges and disciplines.
- xvii) That the officers responsible for maintaining bulletin boards on campus jointly develop and implement a policy designed to:
  - Ensure the removal of posters that are no longer needed from notice boards; and
  - Designate separate boards for textbook and typing notices and commercial ads.
- xviii) That the administration continue its efforts to reduce the paper flow on campus (i.e., by conducting more business transactions electronically) to free up employee time and reduce the burden of excess reading material.
- xix) That all deans, directors and department chairs/heads ensure that regular meetings are held within their jurisdictions (sections, departments or colleges, as the case may be), and that individual members of these constituencies be strongly encouraged to attend and participate. At least some of these meetings should be open to all members of a department or unit (students, staff and faculty members).
- xx) That the compendium of communication methods collected by the committee from members of the University community be made available to all managers on campus, so that they might be aware of the range of techniques used by other departments and adopt those that seem suitable to their setting. (It is available for consultation in the University Secretariat's office.) ○

#### Acknowledgments

I accepted President B.C. Matthews' invitation to join this committee because I felt he was providing a real opportunity to offer some comments and suggestions on a very important subject. It has been a pleasure to work with the members of the President's *ad hoc* Committee on Internal Communications, and I take this opportunity to thank publicly a group of very busy people who made time in their lives to take on this task.

I would also like to thank those in all our "home" groups who made it possible for us to serve on the committee.

By actively seeking comments and suggestions from the University community, by talking to a number of people and by listening to what they and others wanted to tell us, we have prepared a report that we hope will be Phase I in the continuing process of improving our abilities and opportunities to communicate effectively among ourselves.

On behalf of this committee, I would like to thank Jeannette Davidson, Library, Mollie McDuffe, University Secretariat, and Lynn Newell, Alumni Affairs and Development, for their help in producing this report. Thanks also to Les Richards, Office for Educational Practice, for the illustrations and for composing advice, to George Loney, Library, for helping with graphics, and to Publication and Printing Services for their speedy assistance.

Ellen Pearson, Chair

# UNIVERSITY of GUELPH



# Psychology professor discovers Shaw treasure

by Pamela Healey

A Guelph psychology professor's curiosity about the career of a French social scientist has uncovered a cache of George Bernard Shaw letters, books and documents that have become an important addition to the University's Shaw collection.

Prof. Ian Lubek discovered the material while researching the social psychology of Augustin Hamon. Curious about Hamon's apparently sudden career change from social science to the humanities in the early years of the century, Lubek visited Hamon's home in Brittany and found two of his daughters, Maryvonne and Genevieve, still living there. They gave him access to their parents' papers, where Lubek discovered that Hamon and his wife, Henriette, had become Shaw's translators after the psychologist lost his income as editor of *Humante-Nouvelle* in 1904.

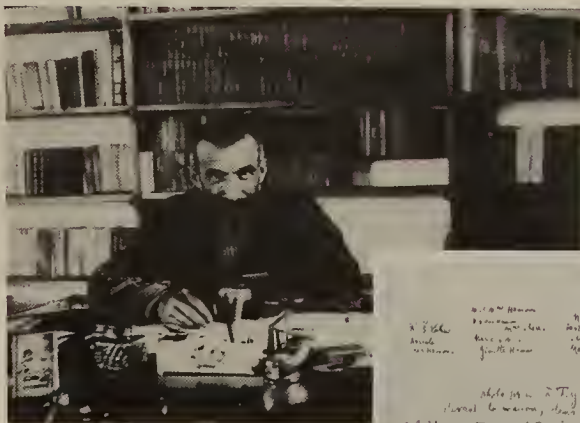
"Hamon was a scholar, publicist and self-taught social scientist," says Lubek. He also participated in anarchist, socialist and communist movements beginning in the 1880s. Shaw and Hamon exchanged about 300 letters that cover a six-decade period from 1893. The playwright believed that Hamon, who had similar political views, could translate the underlying political messages in his drama for French audiences.

Social psychology and original Shaw materials are also part of the collection. The material complements the Library's Dan Laurence collection, says Tim Sauer, head of acquisitions and collections. Guelph is one of the world's leading resource centres on the Irish playwright.

Lubek says the collection is an important information source for researchers of Shaw and French theatre and for scholars working on the historical development of sociology, criminology and social psychology. Hamon's prolific writings also cover French and international politics and trade unionism as well as freemasonry, early feminism and suffragette movements, education and even aeronautical engineering and public hygiene.

Hamon corresponded extensively with leading figures of the day — Nobel prize winners, prime ministers, presidents, labor leaders, leaders of social movements and political parties and editors — and saved everything he received or wrote. The archives also contain correspondence from Hamon's wife and some of Hamon's personal diaries.

Hamon's printed work — books, letters, newspaper clippings — were microfilmed by graduate students Greg and Karen McGuire with funding from the Library, the Social Sciences and Humanities Research Council and York University. The 62 rolls of microfilm contain more than 150,000 documents. The



Augustin Hamon in his study around the turn of the century.

University also acquired theatre posters, reviews, playbills and criticism, tickets and publicity stills, as well as almost 50 first editions of Shaw in French and some limited editions.

"The original theatre materials have not been processed and need conservation work," Sauer says. The collection was protected from light and air, dust and dirt by the mountains of paper that covered it. At Guelph, the collection is kept under temperature and humidity control on shelves in a storage area.

Most of the original material will stay in French institutions, with the theatre material divided between Guelph and the Université de Bretagne Occidentale at Brest. Political and social science documents are in trade-union archives in Nantes, and some documents on anarchism and socialism are at the International Institute for Social History in Amsterdam.

Sauer says scholars are encouraged to use the historical collections, which will eventually be available worldwide through a computerized on-line searchable index. Microfiche or photocopies of specific documents can be requested. Microfilm copies of the archives are being sent to institutions recommended by the Hamon sisters.

The University has now received permission to microfilm Hamon's personal diaries, says Lubek, but special permission from the surviving sister, Maryvonne (Genevieve died last year), is needed to use the diaries and personal letters.

The University is in the process of setting up a Hamon fellowship that will allow scholars to visit the campus to use the collection. O



George Bernard Shaw (far right) with the Hamon family in the garden of their Port Blanc home in 1911.

## Bibliography of Canadian travel diaries gets support

Travel diaries aren't something most of us spend much time reading. But in the early years of European settlement in Canada, they were read and reread. For those who had never stepped outside England, published travel diaries were the only record of the new colonies.

Retired English Language and Literature professor Elizabeth Waterston is compiling a bibliography of travel diaries published between 1600 and 1900. The first complete bibliography of the period, the work has been 25 years in the making. *Canada to 1900: The Travellers* will list and annotate memoirs of British, American and some foreign travellers who kept records of their travels throughout this country.

"Travel books formed the conceptions of Canada for generations of settlers," says Waterston. "What a settler did when he arrived was largely due to the preparation travel books had given him." Waterston says the bibliography will be a valuable tool for historians and literary scholars who want insight into Canada's early pioneers.

Although there are already geographically specific lists of travel diaries (for Upper Canada, Lower Canada and Northern Canada), Waterston says this will be the first comprehensive listing. "I'm interested in anyone who

travelled anywhere in Canada and went back to report on it," she says.

Waterston received \$38,000 from the Social Sciences and Humanities Research Council (SSHRC) to complete the project, which she began under a Canada Council grant in 1962.

The bibliography will be available in bound volumes as well as on-line. That way, says Waterston, any travel books that come to light, or existing books that are translated into English, can be added to the database.

The book will list the diaries chronologically, alphabetically by author and alphabetically by title. Bibliographic data, such as the number of pages and illustrations, are recorded, and the subject matter of the books is catalogued according to references made by the author to certain aspects of Canada, including women, Indians and Americans. There are 99 checkpoints for subject cataloguing.

Ian Easterbrook, co-ordinator of media production and distribution, Office for Educational Practice, and Bernard Katz, head of the Library's humanities and social science division, are co-investigators of the bibliography.

"It will be something every library in Canada wants," Waterston says. She expects it to be available by next Christmas. O

## Blyth Festival material joins archives

The Blyth Festival archives are the latest to join the University of Guelph's extensive theatre collection. Old programs, posters, promptscripts, pictures and sound tapes from the festival are being added to a collection that includes material from the Shaw Festival and several Toronto theatres, including CentreStage, Tarragon, Young People's Theatre, Theatre Plus and Le Theatre du P'tit Bonheur.

The Blyth Festival is distinguished by its exclusively Canadian plays and leading Canadian actors, directors and designers. Since it began in 1975, the reputation of the small

town festival has spread across the country. This year's performance of *Another Season's Promise*, a play by Anne Chislett and Keith Roulston about a struggling southern Ontario farm family, travelled throughout Ontario and Alberta.

Drama professor Leonard Conolly says the theatre archives are well on the way to becoming a major research collection for students and faculty. They are already heavily used by drama and English students here at Guelph and scholars from elsewhere in Canada and the United States. O



Nancy Sadek, left, librarian for archival and special collections, and Sarah Funston-Mills,

research associate, take a look at material from the new Blyth collection.

John Majorosky, Photographic Services.



## Focus



Laboratory technician Uta Strelive, left, shows undergraduate student Pam Dunlop what to look for on a slide.

John Majorossy, Photographic Services

## Excellence in support of research honored

Almost a quarter century of hard work, late nights and long hours were rewarded recently when research technologist Uta Strelive, Department of Zoology, received Sigma Xi's Support of Research Award. Prof. Roy Anderson, chair of Zoology, told the 70 people at the awards ceremony: "No one deserves it more."

The local chapter of the scientific society Sigma Xi has only awarded the prize once before, in 1985.

During her 22 years at the University, Strelive has taught the laboratory sections of two invertebrate zoology courses and helped more than 30 graduate students complete their theses. She has co-authored several papers on neurotropic nematodes, and is currently responsible for the day-to-day running of Anderson's parasitology lab, where she works with graduate and undergraduate students.

Strelive completed her undergraduate degree in textile research at the University of Gera in East Germany. In 1961, she came to Canada to join her parents, and obtained a job in electron microscopy in the faculty of medicine's anatomy department at the University of Saskatchewan.

"That's when electron microscopy was still in its baby shoes," she says. Her first work was done with the EM75. "I think now it's a museum piece." But Strelive learned the basics in a field that was growing fast. "Within three years, it was unbelievable how many things changed," she says. She did everything from preparing experiments to photographing and writing them up.

She married, became a mother, then was widowed — all within three years of arriving in Canada. After her husband died, she wanted to be closer to her homeland. Toronto had good job opportunities, so she and the baby moved east, "just to make enough money to go to West Germany."

At the Ontario Research Foundation, where she went to look for a job, Strelive

found Anderson in the middle of an experiment. The young parasitologist was so engrossed in his work that he didn't ask her why she was there, he just asked her to give him a hand. When they were finished, Strelive found she had a job. Later the same year, Anderson came to Guelph, and Strelive came along to run his parasitology lab. She's been doing it ever since.

Strelive's nomination for the Sigma Xi award was supported by several professors, including Anderson, as well as many students. "I love the students, and have a good rapport with them," she says. "People ask 'don't you get bored doing the same thing all the time?' but there are always new faces, new problems, new classifications, new data to organize into classes. Parasitology is a very exciting field because nothing ever stands still."

And besides, Strelive doesn't do the "same old thing" all the time. She is known internationally for her magnificent wood carvings of birds. Each carving takes about 100 hours to make and sells for between \$500 and \$1,000, although one was recently auctioned for more than \$2,000 by Ducks Unlimited.

Strelive's work has won 28 awards since she started carving in 1981, including a first prize for her first entry at the Canadian National Sportsmen's Show in Toronto that first year. In 1986, she won best in show at the Sportsmen's Show and first prize at the World Championship Wildfowl Carving Competition in Ocean City, Maryland. She had her first show in her own studio in Guelph last year.

Carving could turn into a profitable retirement project for Strelive. Kaiser Porcelain in Germany has approached her about test marketing one of her birds.

But Strelive says her hours at the University are just as satisfying in their own way. "When students recognize they've learned something, that is the biggest reward." □

## HMSC-U of G link benefits entire academic community

The Huntsman Marine Science Centre's (HMSC) \$8.7-million fund-raising campaign recently received a \$100,000 boost from the Canadian National Sportsmen's Show. The fisheries and marine sciences research centre in St. Andrews, N.B., was established as the Huntsman Marine Laboratory in 1969, by a consortium of universities — including Guelph — government departments and international organizations.

Prof. Keith Ronald, director of The Arboretum, is vice-chair, research, of HMSC's board of directors. He says the Sportsmen's Show donation, the first big gift of the campaign, will be used to fund campaign materials. The Natural Sciences and Engineering Research Council has provided \$220,000 annually, and a private charitable foundation has given \$100,000. The object of the campaign is to expand the Huntsman lab into a major research, teaching and public education centre, Ronald says.

In addition to Ronald, the executive of the newly renamed HMSC includes Bill Leggett, dean of science at McGill University, Rowland Frazee, past president of the Royal Bank of Canada, and Lennox Black, chief executive officer of Teleflex, a multinational conglomerate. U of G's two voting members are Ronald and Prof. Bruce Sells, dean of CBS.

Ronald says the development campaign will support renovations and additions to laboratories, classrooms, equipment and accommodations for students and visiting scientists. Plans also include an aquaculture centre for government, academic and private sector initiatives in research, training and extension, and a new aquarium that will be used for research and to foster public support for management and protection of the marine environment.

Guelph is one of 15 Canadian universities that use and support HMSC. The member universities have agreed to a substantial increase in fees to help support the overall operation. The Canadian and New Brunswick governments also lend support. In the last few months, HMSC has undergone a major administrative reorganization to provide a streamlined and efficient superstructure for the consortium.

Because U of G is a full member, the facility is open to the entire academic community from marine biologists to land resource scientists and botanists, says Ronald. It is especially useful to the Department of Zoology's marine biology program in providing students with hands-on experience in ocean environments, he says. Although the 10-day marine biology course given every summer is not currently compulsory for senior students in this specialty, plans are under way to make it so. Students also have the option of taking other courses, some given by Guelph faculty.

Research areas at the centre include aquaculture, fish ecology, aquatic plant production and marine mammology. □

## Learn to care for injured birds

The accidental poisoning of bald eagles on Canada's west coast is one example of the potential dangers awaiting wild bird populations. Birds are also injured, especially during fall migration, by flying into buildings, power lines and fences, and are often hit by automobiles as they swoop down on a mouse or other prey along a highway.

The care and handling of injured birds is a concern of veterinarians, humane societies and natural resource personnel across the country, but few have had practical training in specialized medical treatment of wild birds, says Dr. Helen Wojcinski, avian medicine specialist at the OVC Wild Bird Clinic.

The clinic treats almost 200 traumatized birds each year and is the only one in Canada offering specialized care for injured wild birds and training for both veterinary and other students.

In an effort to improve the emergency treatment of its patients and all injured birds, the clinic has organized a one-day course on "Care and Handling of Injured Wild Birds." It will be held Feb. 20 in conjunction with the World Wildlife Fund (Canada) and will provide basic information on identification, physical

examination and medical management of injured birds.

Lecture sessions will be devoted to discussions of the philosophy of wildlife rehabilitation and the regulations and laws governing the preservation of wildlife. Laboratory sessions will demonstrate how to examine and handle wild birds with the least amount of stress. Treatment techniques, nutrition, housing and rehabilitation will be discussed, with attention given to the treatment of open wounds and fracture stabilization.

Speakers for the course will include Dr. Bruce Hunter, director of the clinic; Dave Euler, a field biologist with the Ontario Ministry of Natural Resources; Katherine McKeever, director of one of the largest owl rehabilitation and research facilities in North America; Prof. Sandy Middleton, an ornithologist in the Department of Zoology; Wojcinski; and several student case workers at the bird clinic.

The course will benefit veterinarians and animal health technicians, humane society workers, ministry personnel and anyone involved with wild bird rehabilitation. Registration is limited to 100 participants. Forms are available from Central Reservations and Conferences, Room 124, Johnston Hall. Registration deadline is Feb. 1. □

## Sports turf association launches conference

The deputy minister of agriculture for Ontario and a former president of U of G, Dr. Clayton Switzer, will headline a list of speakers from across Canada and the United States at the Sports Turf Association's first annual conference to be held in Toronto March 9.

Organized last spring, the association represents a broad spectrum of membership from the turf industry in Ontario. It is the only group

addressing the need for educational, practical and scientific information on sports field management, says president Mike Bladon, Grounds Department.

Topics on the conference agenda include: turfgrass varieties for sports turf, emergency renovation procedures, soil fertility, weed control, athletic injuries and athletic field construction.

Preregistration before Feb. 12 is \$60; on-site registration March 9 at the Harbor Castle Westin Hotel is \$75. The fee includes admission to the speaker session, trade show, breaks and lunch.

For more information on the conference or membership in the association, contact Bladon at the Sport Turf Association, 185 Edinburgh Rd. S., Guelph N1G 2H8. □



# Coming events

## WEDNESDAY, Jan. 20

Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.  
 Biochemistry Seminar - "Some Novel Industrial Applications of Microbial Enzymes," Owen Ward, 12:10 p.m., MacNaughton 222.  
 Instructional Development Seminar - "Constructing Valid Multiple-Choice Exams," Jim Mottin, 9 a.m., MacKinnon 132.  
 Arboretum Interpretive Program - "Avian Gourmet Delights," 7 p.m., The Arboretum Centre, adults only, call Ext. 3932 to register.  
 Continuing Education - "An Introduction to Business/Scientific Graphics," 7 p.m., continues for three weeks, call Ext. 3956/7 to register.  
 Lecture - "The Future of Canada," Jean Chretien, 8 p.m., War Memorial Hall, \$8.50 general, \$6 students and seniors.

## THURSDAY, Jan. 21

Worship - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.  
 Conference - "First Canadian Veterinary Students' Conference," OVC, continues to Jan. 24.  
 Volleyball - Wilfrid Laurier at Guelph, men's and women's, 8 p.m., Athletics Centre.

## FRIDAY, Jan. 22

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.  
 Summer Job Fair - 10 a.m. to 4 p.m., UC courtyard.  
 Current Issues in Agriculture - "Ontario's Grape and Wine Industry," Jack Tanner, 3:10 p.m., Crop Science 121.  
 African Students' Association - General Meeting, 5 p.m., Crop Science 116.  
 Pub - Burns Pub Night, 6 p.m., Faculty Club, UC Level 5, \$6.

## SATURDAY, Jan. 23

Human Kinetics Symposium - "Trauma and Treatment," 8:45 a.m. to 6 p.m., MacNaughton 105.  
 Continuing Education - "Introduction to DOS and the Personal Computer," 9 a.m., register at Ext. 3956/7.  
 Worship - Muslim Students' Association, Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
 Dinner Theatre - Theatre in the Trees, *Key for Two*, 6 p.m., The Arboretum Centre, \$25.50.

## SUNDAY, Jan. 24

Arboretum - Sunday Afternoon Walk, "Meadow Voles and Weasels," 2 p.m., The Arboretum Nature Centre.  
 Art Exhibit Walking Tour - "Inuit Gallery Talk," Judith Nasby, 2 p.m., Macdonald Stewart Art Centre.  
 Art Exhibit Opening - "Alma Duncan and Men at Work," 2 p.m., Macdonald Stewart Art Centre, continues to March 6.

## MONDAY, Jan. 25

Display - Chinese Students' Association, 9 a.m. to 4 p.m., UC courtyard.  
 Our World - Sitar Music, Ballu Thakur, 12:10 p.m., UC 441.  
 Engineering Graduate Seminar - "Microwave Drying of Peanuts," Cassius St. John, 3:10 p.m., Engineering 112A.  
 Commtech '88 - "Turning Ideas Into Dollars," 4 p.m., UC 442.  
 Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.  
 Smoke Cessation Clinic - "Smokebusters for Students," 5 to 7 p.m., \$35, register at Connection Desk, UC Level 3, continues to Feb. 17.  
 Continuing Education - "Business Communication in French," 7 p.m., 10 weeks; "Finance and Accounting in Personnel," 10 weeks; "Human Resources Administration," 10 weeks; "Business Communication," 10 weeks, register at Ext. 3956/7.  
 CUSO - Information Meeting, 7:30 p.m., UC 103.

## TUESDAY, Jan. 26

Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5.  
 Gift Sale - Chinese Students' Association, 9 a.m. to 4 p.m., UC courtyard.  
 Instructional Development - "Desktop Publishing for Teaching," Tom Funk, Michael Leblanc, noon, Blackwood Hall 211.  
 Physics Colloquium - "The Electronic Structure of Diatomic and Polyatomic Rydberg Molecules. Theoretical Rates of Radiative and Non-radiative Processes," Giannoula Theodorakopoulis, 4 p.m., MacNaughton 113.  
 Continuing Education - "Introduction to DOS and the Personal Computer," 7 p.m., register at Ext. 3956/7.  
 Continuing Education - "Conversational German," 7 p.m., 10 weeks; Human Resources Administration, 10 weeks; "The Fundamentals of Human Communication," 10 weeks, register at Ext. 3956/7.  
 Hockey - McMaster at Guelph, women's, 7:15 p.m., Athletics Centre.

## WEDNESDAY, Jan. 27

Worship - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.  
 Instructional Development Workshop - "Constructing Valid Multiple-Choice Exams," Jim Mottin, 9 a.m., MacKinnon 132.  
 Seminar - "Introduction to NetNorth," 10 a.m., ICS 212, register at Ext. 8888.  
 Biochemistry Seminar - "Enzymes from *Saccharomyces cerevisiae* that Catalyze Steps in Genetic Recombination," David Evans, 12:10 p.m., MacNaughton 222.  
 Continuing Education - "French II," 7 p.m., 10 weeks; "Spanish I," "Spanish II," 7 p.m., 10 weeks; "Introduction to Mandarin Chinese," 7 p.m., 10 weeks; "Great Books," 7 p.m., eight weeks; "Training and Development," 10 weeks; "Public Speaking and Presentation Skills," 10 weeks, register at Ext. 3956/7.  
 Volleyball - Western at Guelph, women's, 6 p.m., men's, 8 p.m., Athletics Centre.  
 Lecture - "The Soviet Perestroika (Restructuring): Reality or Public Relations?" Fred Eidlin, 8 p.m., UC 103.

## THURSDAY, Jan. 28

Worship - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.  
 Concert - Stringendo, 12:10 and 1:10 p.m., MacKinnon 107.  
 Botany Seminar - "Comparative Aspects of Floral Development in the Snapdragon Family (Scrophulariaceae)," Judith Canne-Hülliker, 3:10 p.m., Botany, Genetics & Zoology 259.  
 Continuing Education - "French I," "French III," "French IV," 7 p.m., 10 weeks; "Mystery Writing," 7:30 p.m., eight weeks; "Labor Market Economics," 10 weeks; "Labor-Management Relations," 10 weeks; "Effective Writing," 10 weeks, register at Ext. 3956/7.

## FRIDAY, Jan. 29

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.  
 Hockey - York at Guelph, men's, 7:30 p.m., Memorial Gardens.  
 Volleyball - Alumni at Guelph, women's and men's, 8 p.m.  
 Humanities Association - "The Eye Hears and the Ear Sees," 8 p.m., MacNaughton 113, association members and students free, others \$4.

## SATURDAY, Jan. 30

Continuing Education - "WordPerfect I," 9:30 a.m. to 4:30 p.m., register at Ext. 3956/7.  
 Hockey - Queen's at Guelph, women's, 11:30 a.m., Athletics Centre.  
 Worship - Muslim Students' Association Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
 Dinner Theatre - Theatre in the Trees, *Key for Two*, 6 p.m., The Arboretum Centre, \$25.50.

## SUNDAY, Jan. 31

Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 10:30 a.m., UC 103.  
 Arboretum - Sunday Afternoon Walk, "Snow," 2 p.m., The Arboretum Nature Centre.

## MONDAY, Feb. 1

Worship - Catholic Mass, 5:10 p.m., Chapel, UC Level 5.  
 Reading and Discussion - "Lecture de Textes," Gabrielle Poulin, 10 a.m., Grand Salon, Maison Francaise.  
 Engineering Graduate Seminar - "Inter-rill Soil Erosion and Transport," Avinash Agarwal, 3:10 p.m., Engineering 112A.  
 Commtech '88 - "The Protection of Intellectual Property," 4 p.m., UC 441.  
 Continuing Education - "John F. Kennedy: The Man Behind the Myth," 7 p.m., eight weeks; "Singing for Non-Singers," 7:30 p.m., eight weeks, register at Ext. 3956/7.

## TUESDAY, Feb. 2

Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.  
 Instructional Development - "What Constitutes an 'A' in My Course?" Sandy Middleton, Norman Gibbins, Jim Atkinson, Doug Weaver, 10 a.m., Animal Science 141.  
 Continuing Education - "Introduction to Lotus 1-2-3," 7:30 p.m., three weeks; "Video Production," 7 p.m., eight weeks, register at Ext. 3956/7.  
 Sahel Benefit Concert - Anagnoson and Kinton, Judith Croker, 8 p.m., War Memorial Hall, \$10 general, \$5 students.

## WEDNESDAY, Feb. 3

Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.  
 Biochemistry Seminar - "Plant-Plant Virus Interactions," Annette Nassuth, 12:10 p.m., MacNaughton 222.  
 Basketball - Waterloo at Guelph, women's, 6 p.m., men's, 8 p.m., Athletics Centre.  
 Continuing Education - "Entrepreneurship: Planning for Business Success," 7 p.m., six weeks; "Residential Landscape Design," 7:30 p.m., eight weeks; "Philosophy of Religion," 7:30 p.m., eight weeks, register at Ext. 3956/7.

# Briefly

### Soviet Perestroika

Political Studies professor Fred Eidlin will present a lecture on "Soviet Perestroika (Restructuring): Reality or Public Relations?" Jan. 27 at 8 p.m. in Room 103, University Centre. The lecture is presented by the University Centre, the Central Student Association and *The Daily Mercury*; admission is free. For more information, call Anita McManamna at Ext. 2896.

### Inuit drawings on display

The first comprehensive survey exhibition of contemporary Inuit drawings to be organized by a public art gallery is on view at the Macdonald Stewart Art Centre until Feb. 7. On Jan. 24 at 2 p.m., centre director Judith Nasby, co-curator of the exhibition, will lead a tour and discussion of the exhibition. All are welcome.

### Let's go Italian

The Whippletree will feature an Italian buffet Jan. 19 from 5 p.m. to 9 p.m. Price for all entrées is \$12.95. The Whip Centre Stage presents the pop rock of Double Exposure Jan. 21 and 23 at 10 p.m. For information and reservations, call Ext. 3500.

### Second language study

Applications are being accepted for the Queen Elizabeth Silver Jubilee Endowment Fund for study in a second official language. The award provides students with \$5,000 for one year's continuation of study in their second official language at the undergraduate level. Each institution may nominate only one candidate. University nominations must arrive at the Association of Universities and Colleges of Canada (AUCC) by Feb. 15. For more information or application forms, contact the Awards Office, Ext. 9796, or the Awards Division, AUCC, 151 Slater St., Ottawa K1P 5N1, 613-563-1236.

### A Dress-up affair

Mr. Dress Up will appear Feb. 7 at 1 and 3 p.m. at War Memorial Hall. Tickets are \$6.50 and are available at the University Centre box office, Sam the Record Man, The Corner in Stone Road Mall, The Bookshelf Cafe, Stories Children's Bookstore and the Acton Public Library.

### Sunday afternoon walk

"Meadow Voles and Weasels" is the theme of The Arboretum's Sunday afternoon walk Jan. 24. Come out and meet the resident weasel and learn more about its favorite prey, the meadow vole. The walk leaves from The Arboretum Nature Centre at 2 p.m.

### Faculty Club ski trip

A ski trip is planned for Faculty Club members Feb. 17. Cost is \$40 for alpine skiing, \$30 for cross-country. Fee includes return coach to Mansfield, departing at 9 a.m., all-day tow pass and roast beef dinner. A \$10 non-refundable deposit is required.

### Theatre in the Trees

*Key for Two* will be presented Jan. 23 and 30, Feb. 6, 13 and 27 and March 5, 19 and 26 at The Arboretum Centre. Dinner begins at 6 p.m., the play at 8 p.m. Brunch performances are scheduled for Feb. 21 and 28 and March 13 and 27. Brunch begins at 12:30 p.m., the play at 2:30 p.m. Tickets are \$25.50, and are available at the University Centre box office, Ext. 3940. For more information, call Ext. 2113.

### Surplus sale

The Surplus Sales Department, Blackwood Hall, has the following items available for sale on a closed bid basis: SD #447 - 1975 Dodge Functra van, #B25BE5X052897. Bids will close at 4 p.m. Jan. 28. For more information and viewing, call Ext. 8139.

### Learn to relax

The Relaxation and Biofeedback Clinic in the School of Human Biology presents relaxation classes for stress remediation and high performance. The program includes 10 group relaxation sessions and one follow-up session, beginning Jan. 29. Sessions meet Mondays and Thursdays from 7:30 to 8:30 p.m. Cost is \$65; registration is Jan. 21 at 7:30 p.m. in Room 209, Human Biology building. Anyone with a medical condition should check with their doctor before enrolling. For more information, call Ext. 2662 or leave a message at Ext. 6713.

### For the birds

Learn how to be selective in the birds that visit your feeder. Register for "Avian Gourmet Delights" Jan. 20 at 7 p.m. at The Arboretum Centre. For more information or to register, call Ext. 3932.

### Trio performs

The first noon-hour concert of the winter semester Jan. 28 features Stringendo - Mary Ann Fujino and Paul Zafer on violin and Glenn Hodgins on piano. Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "Three on a Spree" by Alexander Brott; "Sonata No. 1" and "Sonata No. 12" by Giambattista Pergolesi, "Suite Italienne" by Igor Stravinsky, "Concerto in D minor" by Bach, "Serenade Op. 56" by Christian Sinding and "Sonata in G minor, Op. 2, No. 8" by Handel. Program II at 1:10 p.m. will feature "Suite in G minor, Op. 71" by Maurice Moszkowski, "Rhapsody Op. 119, No. 4" and "Intermezzo Op. 119, No. 3" by Brahms and "Bach at the Double" by Teddy Bor.

### Butt out!

A smoke cessation clinic will be held over a four-week period beginning Jan. 25. Registration is \$35 and can be paid at the Connection Desk, Level 3, University Centre. For more information, call 836-4444.



# OVC students to host first conference

Some 75 students from three other veterinary colleges in Canada will arrive on OVC's doorstep Jan. 21 to take part in the first-ever Canadian Veterinary Students Conference. The OVC student council of the Central Veterinary Student's Association (CVSA) has been preparing since last March for the two full days of scientific sessions and recreational events.

Students and faculty from the Atlantic Veterinary College, University of Prince Edward Island; the Faculty of Veterinary Medicine, St. Hyacinthe, University of Montreal; and the Western College of Veterinary Medicine, University of Saskatchewan, will be welcomed at a wine and cheese reception Thursday evening. The next morning the "all star" inter-college hockey tournament will take place at Memorial Gardens, with all colleges vying for the trophy. In the evening, there will be a spaghetti supper at the OTS Fraternity and a party at Creelman Hall.

Saturday will include lectures in the morning and "wet labs" in the afternoon. Sessions will be offered on "Cancer Management" with OVC's Dr. Stephen Kruth, "Dermatology" with St. Hyacinthe's Dr. Manon Paradis, "Seizures Control" with OVC's Dr. Joane Parent, "Medicine in Pocket Pets" with OVC's Dr. John Baird, "Bovine Lameness" with Western's Dr. Jim Ferguson and "Current Topics in Equine Reproduction" with OVC's Dr. Neale Savage. A banquet and dance will be held at Guelph Place in the evening.

Organizers say they are pleased with the way their plans have come together. "It has been a real community effort, not just by the

students on the council, but by other students and faculty members," says Andrea Ellis, president of the CVSA.

Cost of registration is \$35, \$25 for OVC students.

Tickets for the entire program or for

individual events — Creelman Party, \$3, banquet, \$12, and lecture series, \$12, — are available to any interested University student or faculty member. Tickets are on sale outside the cafeteria in the OVC main building until Jan. 22. O



Food Services recently announced the winners of its Coke contest. Above, Rob Brown of Fergus, winner of a ski trip, receives his prize from Jack Boisvert of Coca-Cola Ltd. At right is David Boeckner, assistant director of Food Services. Laura Klein of Fergus won a television

set, and sports bags went to Nabeel Makar of Willowdale, Andrew Zaborowski, Mountain Hall; Richard Queller, Homestead Hall; Leslie Downes of Guelph and Jennifer Johnston of Hamilton.

Herb Rauscher, Photograph Services.

## Job opportunities

As of At Guelph deadline Jan. 15, 1988, the following opportunities were available:

**Interim Assistants, Circulation/Reserve, Library;** three positions. Salary range: \$4.87 to \$6.02 per hour.

**Second-Class Stationary Engineer, Central Utilities Plant;** two positions. Job rate: \$16.12 per hour; start rate: \$15.37 per hour.

**Third-Class Stationary Engineer, Central Utilities Plant.** Job rate: \$14.03 per hour; start rate: \$13.28 per hour.

**Executive Secretary, Food Services.** Salary range: \$333.04 minimum; \$384.36 job rate (level 5); \$477.27 maximum.

*The following positions were available to on-campus employees only:*

**Custodian 3, Housekeeping Department;** two positions. Job rate: \$10.75 per hour;

probation rate: \$ .20 per hour lower than job rate.

**Parasitology Technician, Pathology Department, OVC.** Salary range: \$353.20 minimum; \$408.07 job rate (level 5); \$506.70 maximum.

**Co-ordinator, Professional Affairs and Extension, OVC.** Salary commensurate with qualifications and experience.

**Assistant Unit Manager, Food Services;** two positions. Salary range: \$467.61 minimum; \$508.55 job rate (level 5); \$614.58 maximum.

**Supervisor of Graphic Design, Publication and Printing Services.** Salary range: \$481.04 minimum; \$557.19 job rate (level 5); \$692.11 maximum.

**Technician, Environmental Biology, OAC.** Salary range: \$353.20 minimum; \$408.07 job rate (level 5); \$506.70 maximum.

Postage paid in cash at first-class rates. Permit 1149, Guelph, Ontario, N1G 2W1.

## Personals

**For Sale:** 1971 Opel GT, 855-6652 after 6 p.m. Ladies' three-quarter-length polar white muskrat coat, size 10-12, four years old, 836-0197. 1984 Dodge Omni, standard transmission, sunroof, Ext. 3703 or 824-9571 after 5 p.m. Olympus OM10 35mm camera with F 1.4 lens and Olympus T35 flash; Minolta XA9 35mm camera and F 1.7 lens; Osawa 85-300mm and macro two-touch lens; Prisma 375TA flash; Akai 80hm speakers, 80-watt max., 763-3170.

**Available:** Word processing, typing, resumes, data entry on a PC, 824-2426.

**Wanted:** Two-bedroom apartment for mature, working couple, \$550 per month maximum, call 823-8800, Ext. 4428 or 824-6918 after 5 p.m. Passenger to share expenses driving from Guelph to Ottawa Feb. 5, returning Feb. 8, 824-3174.

"Personals" is a free service offered by At Guelph for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to At Guelph one week before publication. O





## Inside:

400 students protest underfunding ..... 1  
Strategic planning group begins work ..... 1  
Committee to steer counselling & advising ... 3  
CUP calls for library review ..... 3

## Cover:

*Dr. David Porter, chair of OVC's Department of Biomedical Sciences, admires the work student Ruth Parker has done. See story, page 2.*

Herb Rauscher, Photographic Services.







# Forum backs national education program

by Marla Stewart

Guelph became the first Canadian university to shut down in protest of government underfunding Jan. 19. All classes were cancelled between 11 a.m. and noon for students to attend a forum in conjunction with the Canadian Federation of Students' (CFS) national week of action.

About 400 students gathered at War Memorial Hall to hear Central Student Association president Jim Ryan, CFS president Tony Macerollo, Guelph MP Bill Winegard and President Burt Matthews address the issue of government underfunding of post-secondary education. A question period followed.

A letter was read from Secretary of State David Crombie, who expressed regret at being unable to attend the forum. He noted that in recent months, "definite progress has been made in these areas." He pointed to the National Forum on Higher Education held in Saskatoon last year as an example of the federal and provincial governments' ability to work together, suggesting that it was just the beginning for higher education in Canada.

Ryan told the forum that students across Canada are demanding a national education program. He pointed to the 1977 creation of the Established Programs Financing Act (EPF) as the time when Canada's post-secondary education system began to falter.

Before 1977, the federal government gave money to the provinces to use for post-secondary education on a dollar-for-dollar basis, said Ryan. That meant each dollar the provinces received was earmarked for education. The creation of EPF, however, meant that health care and education were "lumped together," and the federal government no longer required the provinces to spend money on a dollar-for-dollar basis. "They were openly encouraging provinces to spend less than that amount," he said.

## Segal releases report on forum

U of G president designate Brian Segal has repeated his call for action following the national forum he chaired last October on post-secondary education.

Segal, now president of Ryerson Polytechnical Institute, has released copies of his report on the forum's outcome to the Council of Ministers of Education, Canada, and the secretary of state. Also available along with his report are the official proceedings of the forum.

Segal says his report outlines for government officials "the main lessons" to be drawn from the Saskatoon deliberations. Timely follow-up to the forum is a priority, he says. "It would be most unfortunate if we were not to meet the expectations that were created by this national consultation."

Copies of Segal's report are available free of charge; the cost of the proceedings is \$15. Both are available from the Forum Secretariat, 275 Slater St., Suite 1204, Ottawa K1P 5H9, 1-613-236-2434. (Notes from AUCCO)

## Post-secondary council focus of hearings

The possibility of establishing a national council on post-secondary education will be the focus of public hearings across Canada shortly by the Standing Committee on Secretary of State.

The committee is expected to report to Parliament on the outcome of the hearings before the end of June.

Anyone interested in appearing before the committee should contact Elizabeth Kingston, Committee Clerk, House of Commons, 180 Wellington St., Room 622, Ottawa K1A 0A6, 613-996-1537. (Notes from AUCCO)

"The provincial government hasn't kept pace," said Ryan, who suggested that the EPF has come to mean bigger classes, fewer classes or programs offered, fewer faculty and fewer places for students to enter the post-secondary educational system. "Every year, the entrance standards have been raised because fewer spaces per applicant are available."

He encouraged Winegard to fight for guaranteed funding in Ottawa.

Winegard agreed with Ryan that the federal money should be earmarked, but indicated that his opinions "do not necessarily reflect the opinions of the federal government."

His speech looked farther back into the history of post-secondary education in Canada, when, before the Second World War, all education was private and received no public money at all. It was not until after the war, when war veterans returned home, that the federal government began to support the Canadian university system, he said.

Until 1967, the government gave direct grants to institutions, and did not even go through the provinces, said Winegard. In 1967, the dollar-for-dollar system began, with Ottawa agreeing to pick up 50 per cent of the operating costs of the universities. The provinces were paying 35 per cent; the students were paying the rest.

"No wonder the provinces were generous," said Winegard. "That was a bad thing in my opinion. You shouldn't have one level of government having no control over its money."

It was the introduction of the EPF with the federal government's unconditional transfer of money for health and education that led to the direct underfunding of post-secondary institutions, he said. In Ontario at least, the province was not maintaining the rate of expenditure in universities. Within six or seven years, Ontario's expenditures per student dropped from being first or second in Canada to being seventh or eighth, he said.

If the provinces don't want the federal money earmarked, said Winegard, the only solution is to divide the money, separating the research function of universities and turning it over to the government. "The federal government will have to take money out of the EPF, but the provinces won't like it."

Winegard said Canada should begin treating its universities as a resource. "The money spent on post-secondary education is not a social service. It's an investment in the future of this country."

Matthews suggested that relations between the federal and provincial governments reached their lowest point over the EPF. The act, initially slated for renegotiation every five years, has never been renegotiated, he said.

Like Crombie, Matthews believes the Saskatoon forum was a step in the right direction, in that it was jointly supported by both levels of government. And he hopes that next month, at the Council of Ministers of Education of Canada, more progress will be made.

"I hope a national council of post-secondary education and research will come out of it," he said. "Maybe we can agree on national objectives for post-secondary education and base future funding on them. But on the other hand, it may be too logical to be accepted."

During the question period, students expressed concern about Winegard's suggestion that the federal government divide the EPF funds, separate the research function of universities and turn the money over to research without going through the provinces.

Winegard said he wasn't suggesting the federal government have central control of university research, but that the money should go to research through granting councils.

Macerollo said the present system means both levels of government "are kicking education in the head, and all we're getting is brain damage."

Citing the example of the federal government's intervention in health care, Macerollo



A student makes a point for more government funding to universities.

Herb Rauscher, Photographic Services.

suggested Ottawa should force the provinces to spend the federal transfer payments it receives for education on education. "Billions of dollars are being shuffled between two levels of government and there's no accountability; neither level of government is being sufficiently accountable," he said.

Macerollo told students they could get involved by participating in a postcard campaign, writing to the Ontario minister of education, the

secretary of state, the treasurer of Canada and the minister of finance. He also encouraged students to write to their MPs and MPPs, "demanding an answer and an explanation" of what is happening to the money.

A follow-up forum on last week's protest will be held as part of the general meeting of the Ontario Federation of Students, which is being held on campus this week. The forum is Jan. 29 at 1:45 p.m. in Room 103, University Centre. O

## Strategic planning group calls for submissions

The names of seven people who have been appointed to the President's Strategic Planning Working Group were announced by President Burt Matthews last week.

Vice-President, Academic, Jack MacDonald will chair the working group made up of Charles Ferguson, vice-president, administration; Prof. Ken Grant, Economics; Derek Jamieson, director of Institutional Analysis and Planning; Prof. Susan Melver, chair of Environmental Biology; College of Arts Dean David Murray; and OVC Dean Ole Nielsen.

The working group now seeks submissions from the University community about any new initiatives or changes in current activities that should be considered in the 1988/89 strategic planning process.

MacDonald says submissions outlining activities proposed for the 1988/89 budget year would be helpful, even though the final strategic plan will not be approved by Senate until early fall — well into the 1988/89 budget year.

The main purpose of the process is to collect specific information for resource allocation planning associated with the 1989/90 budget year, says MacDonald. Any information that can be provided about plans for activities beyond 1989/90 would help in the long-range planning process.

Submissions should be brief — no more than two pages for each proposal — and submitted to the Office of Institutional Analysis and Planning, Level 4, University Centre, by Feb. 22. They should contain a succinct description of the proposed activity, a brief statement of justification and a statement of the resources that will be required (or released) by the proposal. This should include consideration of space, personnel, capital and operating budget requirements and any other resource implications for the unit submitting the proposal or for another area of the University.

Longer-range proposals will, of necessity, be less specific, says MacDonald, and in the case of an initiative that requires consideration by a committee or board, the submission should indicate the present status of the proposal.

The working group also invites units to comment on anticipated changes in the University's undergraduate and graduate enrolments that may have resource implications.

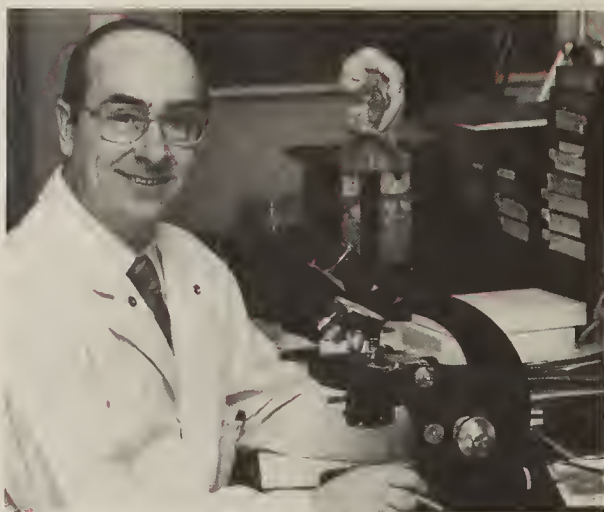
MacDonald says suggestions on any other matter that might be considered important in the strategic planning process are also welcome, particularly suggestions on possible sources of revenue to support the University's programs.

For more information, call Jamieson at Ext. 3456. O



# Focus

## The singing usher



Ken Fisher

Herb Rauscher, Photographic Services.

On Tuesday evenings, his booming bass voice leads a group of 50 barbershop singers. On Wednesday morning, he might be studying a two-headed cow or a hermaphrodite pig. Next Thursday and Friday, he will head up the group of faculty ushers who help maintain order at convocation ceremonies.

Prof. Ken Fisher, a developmental biologist in the Department of Biomedical Sciences, keeps a busy schedule, but that didn't stop him from volunteering to take over the position of head usher when Prof. Doug Bullock, Food Science, retired from the job.

"I've been ushering ever since I was in high school," says Fisher. Back in his high school days, he kept a part-time job ushering at the Royal Canadian Institute in Toronto, where he also had a chance to sit in on science lectures. "And I've ushered ever since I've been on faculty."

His new position, however, carries with it more responsibility than any of his previous experiences. Part of his job includes reminding colleges to find faculty to help with ushering whenever there is a ceremonial procession. He is also in charge of overseeing the ushers, saving adequate space for choirs and special guests, policing the traffic flow of students receiving their degrees and, on some occasions, acting as a University representative in handing out the degrees.

"Convocation is one of the great public relations opportunities of the University," he says. For one thing, it is one of the few times parents who have paid for a student's education are on campus. "It's the culmination of a lot of hard work on their part and on their children's part."

Having faculty as ushers makes an important contribution to the convocation ceremony, he says. "The procession is overwhelming and (the students) need some friendly faces to help make the day as fun and memorable as it should be."

Fisher enjoys managing and organizing the backstage of productions. He's had lots of practice doing that as chorus director of the Royal City Ambassadors, the Guelph chapter of the International Society for the Preservation and Encouragement of Barbershop Quartet Singing in America. Last year, the Guelph chapter won the Ontario district chorus championships.

As director, Fisher says he's "learned more about teaching and motivation through directing than anything I do around the University."

In addition to directing, he is also a member of Ellusions, a barbershop quartet he was involved in starting up last year.

On the job, Fisher's area of specialty is in the development of reproductive systems, especially intersexes in pigs. He also does research in the area of twinning, with particular interest in conjoined twins in cattle. O

## Chretien: A question of possibilities

Canada may be on the verge of losing its fundamental fabric, says Jean Chretien, former federal MP and cabinet minister. "And if we continue to be complacent about the future of our nation, our children will pay for it," he told a full house in Peter Clark Hall Jan. 20.

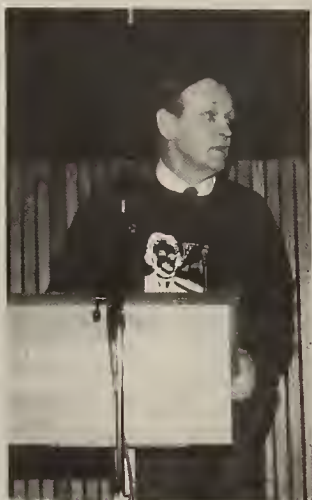
Chretien said that in the past three years, he has not been happy with the political scene in Canada. He said the Meech Lake Constitutional Accord had been signed simply to make a deal, and suggested that Prime Minister Brian Mulroney "wanted to do something to come back politically. Bourassa went with five demands to the table, and Brian gave him nine yesses."

He said his main fear about the accord is the lack of rights for all members of Canadian society. "What worries me is that I fought for equality all my life. In this accord, they've excluded two groups," he said, referring to native Canadians and women.

Chretien also expressed concern about

Canada's future if free trade with the United States becomes a reality. He said he fears two things about the deal: protectionism — "We're not protected from any protectionist laws they pass" — and the energy policy — "In a shortage, we have to share with them... at the same price we pay in Canada."

He questioned whether the Americans would eventually decide that medicare or other



Jean Chretien.

Marlo Stewart, PRI.

Canadian benefits were unfair subsidies. He pointed to recent rumblings among fishermen on America's eastern seaboard who have already suggested that the generous unemployment insurance Canada pays to its fishermen in the winter is an unfair subsidy.

With free trade, he said, "I don't know what we've gained, and I'm afraid of what we'll lose."

During a question period following his talk, Chretien was asked if he wanted to become prime minister. He replied in French that it was not a question of wanting, but a question of possibilities.

Chretien was first elected as a representative for the Liberal party in 1963, spent 17 years as a cabinet minister and lost the federal Liberal leadership race to John Turner in 1984. He now practises law privately in Quebec. O

## Winter convocation set for Feb. 5

Some 112 graduate degrees, 426 undergraduate degrees and six diplomas will be presented at two convocation ceremonies Feb. 5 in War Memorial Hall.

The doctor of philosophy, doctor of veterinary science, master of arts, master of science, master of landscape architecture, doctor of veterinary medicine and bachelor of arts degrees and the graduate diploma will be presented at the 10 a.m. ceremony. The first 10 graduates of Guelph's master of agriculture program will also receive their degrees.

Dr. Harry Rubin of the University of California, Berkeley, a noted medical scientist in cancer research, will receive an honorary doctor of science degree and address the graduands.

At the 2:30 p.m. ceremony, the bachelor of applied science, bachelor of science in human kinetics, bachelor of science in agriculture, bachelor of science in engineering degrees and the associate diploma in agriculture will be presented. Dr. Michael Smith of the University of British Columbia, a leading Canadian molecular biologist, will receive an honorary doctor of science degree and make the graduating address.

A reception for the graduates and their guests will be held after each ceremony in Peter Clark Hall, Level 0, University Centre.

Robbing up for graduands, faculty, the official platform party and dignitaries is in the lower lounge in War Memorial Hall. O

## Old Joe is out to pasture, student builds new skeleton

OVC will soon have a new addition to its collection of faithful teaching assistants. Replacing the half-century-old horse skeleton known as "Old Joe" will be a new thoroughbred horse skeleton — as yet unnamed — to act as a teaching model.

The new skeleton, apart from being a well-heeled thoroughbred, is also well put together — thanks to OVC student Ruth Parker, who reconstructed the horse.

There was some debate about whether or not to buy a horse skeleton, says Prof. Anne Croy, Biomedical Sciences. But with a pony-sized skeleton ringing in at about \$9,000, the department decided they could construct their own for considerably less, and at the same time, offer a unique educational experience.

Initially the department planned to hire two students for the project, hoping for a government subsidy to supplement the funds set aside for the work. But when the subsidy failed to materialize, "we still had enough to hire one student," says Croy.

Parker began rebuilding the horse frame "on and off" during the summer, and continued working on it while balancing another part-time job when school resumed in September.

Before Parker's job began, however, the thoroughbred itself went through a lengthy preparation process. When OVC received the bones, most of the meat had been removed, but the remainder was neatly

cleaned off by beetle larvae, the bones degreased, chemically bleached and dried — all standard procedure before reconstruction.

Only then could Parker put the horse's 246 bones back together. She identified each bone, then armed with drill, wire and glue, she put together the puzzle, starting with the spine. The finished skeleton rests on three iron supports designed by Parker.

A second-year student, Parker says her first-year anatomy course helped prepare her for the task, but her upbringing on a Nova Scotia farm also helped. "I know how to use tools," she says. And the fact that she is "a bit of an artist" made the three-dimensional aspect of construction a little easier.

In the meantime, Old Joe will probably go to the radiology unit. If radiology decides to repair him — from the hammer hole in his skull to his brittle spine — they'll continue to use him for teaching. "I'd love to do the repair work myself," says Parker.

Parker says she has learned a great deal from her reconstruction experience. "It's been fun and it's been a good education for me. Manipulating the bones has given me a better appreciation than I've learned from my textbooks."

She is not the only one who is pleased. OVC will benefit a great deal from her efforts, and according to Croy, the new horse should be a lot more stable. O

### At Guelph

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# Report on Senate

## Special committee to deal with counselling & advising system

Senate gave the green light Jan. 19 for Vice-President, Academic, Jack MacDonald, to establish a special committee to deal with the Report on Counselling and Advising at the University of Guelph.

The committee is expected to be made up of academic and support services people "closest to the action in counselling and advising," said Prof. Steve Scadding, Zoology, chair of the Board of Undergraduate Studies. BUGS has accepted and reviewed the report.

The committee will examine the report's recommendations and their feasibility, and prepare a plan outlining priorities, timing and sequence for implementing the recommendations. MacDonald will give Senate a progress report in July.

The report is in response to Recommendation 1.10 of *Toward 2000: Challenges and Responses. Aims of the University of Guelph*, which called for a study of the counselling and advisory system to ensure that it is effective and efficient and that it introduces students to the range of the University's learning resources, clarifies their educational objectives and supports them in their learning experiences.

The report is extensive, comprehensive and far-reaching, said Scadding. He noted that a review of the system was complicated because so many units on campus are involved in counselling and advising. The committee iden-

tified a number of areas where action is needed, he said, and the report makes four principal recommendations:

- A more formal institutional commitment to counselling and advising;
- A counselling/advising network for system-wide education, exchange, consultation and problem solving for people involved in student counselling and advising;
- A front-end loading of resources to support the needs of entering students; and
- Distinctive approaches to address the different needs of entering and in-course students.

Prof. Jack Milliken, School of Landscape Architecture, noted the budget implications: "We are being asked once again to do more with less." He asked if anyone was considering "what we will have to give up."

Acting provost Brian Sullivan told Senate he is encouraged by the committee's persuasive effort to encourage more communication and co-ordination between support service personnel in the Counselling and Student Resource Centre and the counsellors and advisers in academic departments across campus.

He also noted a 58-per-cent response rate among 1,945 students surveyed for their comments and concerns about advising and counselling at the University. An examination of the responses to open-ended questions indicates that students view this issue as a "hot topic," he said.

Staff in the student service areas are looking forward to working more closely with the counsellors and advisers in the academic areas to promote the advising and counselling system aims highlighted in the report, he said.

Prof. O.P. Dwivedi, chair of Political Studies, said the University's aims documents states that the institution has a responsibility to provide opportunities for the spiritual maturity of its faculty, staff and students. He said this can not be achieved until those who belong to non-Christian religious groups — particularly Hindus, Buddhists, Sikhs and Baha'is — have their own places to meet. The University has an obligation to provide facilities for these groups, he said.

Members of the advising and counselling review committee included Nancy Clendenning, academic counsellor, BA programs; Maureen Brown, Central Student Association; Liz Honegger, Counselling Services, Provost's Office; Prof. Mike Jenkinson, Dean's Office, OAC; Jeff Miller, CSA; Prof. Martin Nye, Chemistry and Biochemistry; Prof. Dana Paramas, Languages and Literatures; Pat Richards, Athletics; Marnie Souter, Residences; Prof. Richard Vosburgh, Consumer Studies; Doug Weaver, Registrar's Office; and Prof. Bob Winkel, Dean's Office, College of Physical Science. Co-chairs were then associate vice-president, academic, Dr. Janet Wardlaw, and then provost, Paul Gilmor. O

## Committee to examine eroding library resources problem

The Committee on University Planning has asked Vice-President, Academic, Jack MacDonald, to strike an *ad hoc* committee to examine eroding library resources and the Library's ability to maintain services to the University community.

CUP chair Prof. Bev Kay, Land Resource Science, reported to Senate last week that the Library's ability to continue meeting the needs of its users surfaced as "the single largest issue" among teaching and non-teaching units when they were asked by CUP to discuss the implications of 1987/88 budget cuts.

The committee is to assess the adequacy of current library resources for teaching and research programs in comparison with other universities with similar programs, and outline alternative strategies for maintaining future accessibility of teaching and research programs to adequate library resources.

The committee is expected to report to CUP and the Senate Library Committee by next month.

Over the past five years, the percentage of the University's MCU budget spent on the Library has dropped from 6.68 per cent to 6.03 per cent. The proportion of the Library's budget spent on acquisitions has fluctuated between 32 per cent and 34 per cent over the past five years, and the price of periodical material has increased 100 per cent. The acquisitions budget would have to be increased by about \$1.5 million to maintain the level of acquisitions equal to that of five years ago, says CUP.

The Library has cancelled five support positions and six professional positions, with a corresponding reduction in services, in response to shifts in budgets and cost of materials. To balance the acquisitions budget and prevent the cost of renewing serials from taking over the entire acquisitions budget, the Library is cutting 20 per cent (\$200,000) from the 1987/88 general serials renewal budget base.

The serials reduction project has focused concern on the possibility that cancellation of serials and reduced acquisition will result in a serious deterioration of a resource that is fundamental to teaching and research, says CUP.

The committee notes, however, that other parts of the University that are also essential to teaching and research are not at an optimum level, and it says the Library's problems should be addressed as part of an examination of the adequacy of all resources.

The problem of library resources is common to all universities, says CUP, but the degree to which it is greater or lesser at Guelph and the

degree to which solutions exist that are unique to this University are not clear.

The committee has several questions that must be answered:

- Are the current holdings adequate for the nature of the University's teaching and research programs in comparison with current holdings in other universities with comparable programs, and in comparison with the current level of other resources at Guelph that are essential to our teaching and research programs?
- If the current holdings are inadequate, what level of additional budget is required to restore holdings to an adequate level?
- What strategies can be implemented to maintain future accessibility of teaching and research programs to adequate library resources?

Answers to these questions would be useful to the strategic planning working group, which would be expected to feed the committee's comments into the next strategic planning, discussion paper, said Kay.

The University's MCU base budget in 1987/88 was cut by \$2.789 million, with a corresponding \$0.294 million reduction in the budget from the Ontario Ministry of Agriculture and Food.

As a result of the cuts, 20.25 faculty or

professional positions were cancelled or frozen, and two semester lecturer positions were terminated in teaching units; 20.7 technical staff or academic support positions were cancelled or frozen in teaching units; 23.7 positions were cancelled or frozen in non-teaching units; the number of graduate teaching assistantships was reduced; two majors were dropped and a number of courses were dropped or not offered; and the Library provided fewer services.

In addition, service was diminished in the Student Resource Centre, Residence Life, Medical Services and the Office for Educational Practice; less support was available in Personnel Services, Financial Services, Physical Resources and Administrative Services; an increased proportion of operational costs in non-teaching units was being charged to teaching units; and innovations in a number of teaching programs were delayed.

CUP's report to Senate also outlined new initiatives taken, including research initiated through the research excellence funds. MCU funds totalling \$1,654 million were distributed among teaching and non-teaching units on a one-time-only basis; the teaching units received \$1,514 million of the total. Funds totalling \$320,800 were directed to the New Initiatives Fund, \$179,000 was distributed under the

## Obituary

Denis Stott

Denis Stott, first chair of the Department of Psychology, and founder and director of the Centre for Educational Disabilities, died Jan. 22 in England. He was 78.

He and his wife, Jane, had moved from Guelph last spring to Priors Marston, Warwickshire, England, where the funeral was held Jan. 26.

Dr. Stott was chair of the Department of Psychology from 1966 to 1968, when he founded the Centre for Educational Disabilities. He was director of the centre until his retirement in 1975. He was made a professor emeritus of the University in 1980.

After graduating from Cambridge University in 1932, Dr. Stott taught modern languages for 14 years, developing an interest in the problems of delinquent school boys that led to a career change at the age of 37. He became research officer of a project on delinquency and human nature funded by the Carnegie United Kingdom Trust.

In 1950 he received his PhD in psychology from the University of London for his work on the causes of delinquency in boys in approved-school education. He then took a position as lecturer at the University of Glasgow, where he taught until coming to Canada.

Dr. Stott's research always occasioned interest and discussion in academic circles, whether it was his work on delinquency, behavior disturbance, child and adolescent development, mental and physical handicaps or the influence of prenatal stresses. He continued to write and publish in these areas until a few weeks before his death.

In addition to his wife, he is survived by his daughter, Marion, and his son, Peter, both living in Great Britain. O

President's Special Fund for Equipment and \$1,153,900 was distributed in Research Excellence Funds.

CUP says the research excellence funds have strengthened specific components of the University's research program, and the President's Special Fund and the New Initiatives Fund have contributed positively to academic programs. But, says CUP, there appears to be a net decrease in the diversity and richness of academic programs and the learning environment at the University. O

## Appointments

President designate Brian Segal has been appointed professor with tenure in the Department of Political Studies. The appointment is effective Sept. 1.

Prof. Ken Kershaw of the department of biology, McMaster University, has been appointed adjunct professor in the Department of Botany for a five-year period beginning July 1.

James Lennie of Guelph will join Communications Services Feb. 1 as Analyst III. O

## Senate summary

In other business, Senate approved the list of graduands for winter convocation and course changes for the 1988/89 *Graduate Calendar*.

In Committee on Bylaws and Membership matters, Senate voted to change the composition of Senate to include the director of information technology as an *ex officio* member.

It also received for information a report that the committee had decided that the Senate Committee on Awards membership should not be expanded to include a student senator because of its already large size. The committee has, however, asked the striking committee to ensure that when it selects its annual slate of nominees to Senate that one of these elected members of Senate is, in fact, a student.

Senate also received for information the committee's report that recommends there be no change at this time to the composition of the Committee on University Planning. Senate, however, later endorsed the motion that sent the matter back to the Committee on Bylaws and Membership for reconsideration. The committee

is expected to bring the motion back to Senate next month, when a two-thirds majority vote will be required to pass it.

Senate also adopted some new house rules. Its rules of order were amended to ensure that the chair conducts proceedings in conformity with the bylaws and procedures enacted by Senate. And in cases where there are no guidelines, Senate will look to *Bourinot's Rules of Order*, revised by J. Gordon Dubroy, (McClelland and Stewart Ltd., 1963).

One new award was approved — *François Cleyn Scholarship*, an annual award of \$500, tenable with other Senate awards, to a student who has completed six semesters in clothing and textiles within the Department of Consumer Studies. The student must have a high academic standing and be involved in extracurricular activities. Application is to the assistant registrar, awards, by April 1. The selection committee is the B.A.Sc. awards subcommittee. The donor is the Canadian Textiles Institute.

Senate also received for information a Board

of Graduate Studies report on additions to graduate and associated graduate faculty.

*Provisional graduate faculty:* Richard Moccia, Animal and Poultry Science; M.I. Lindinger, Human Biology; and David Waltner-Towes, VML.

*Temporary graduate faculty:* Terry Quinney, Zoology.

*Associated graduate faculty:* H.H. Jorch, Wilfrid Laurier (GWP); A.V.S. Hubeis, Bogor Agricultural University/University School of Rural Planning and Development; D. Elfving, OMAF, Simcoe/Horticultural Science; R.E.H. Smith, University of Waterloo/Zoology; R.J. Ellis, Wilfrid Laurier University/Psychology; C.A. McCann, Defence and Civil Institute of Environmental Medicine/Psychology; and R.C. Roy, Agriculture Canada, Delhi/Crop Science.

*Associated graduate faculty without term:* Jean Sabry, retired/Family Studies.

Senate also received for information a report from the Information Technology Committee on microcomputer purchase procedures and policy. O



# The Gosling Wildlife Gardens

Preparations are well under way for five urban wildlife gardens near The Arboretum Nature Centre, says Arboretum director Prof. Keith Ronald. The Gosling Wildlife Gardens are named for Guelph residents Philip and Jean Gosling, supporters of The Arboretum.

The half-hectare area will illustrate the relationships between woody plants and wildlife in an urban setting. A plan has been devised to divide the site into five gardens about the size of urban and suburban backyards, and to plant them with trees, shrubs and herbaceous plants that will provide cover and food for wildlife. Each garden has a separate theme and design

qualities, just as it would in a residential community.

The plan for the Gosling Wildlife Gardens, designed by landscape architecture student Katherine Dunster, includes bird feeders, bird and mammal houses, gazebos, fences and an aerie to allow a view of the whole site from the treetops.

The new gardens will help increase visitors' awareness and appreciation of the importance of habitat to the survival of wildlife species, says The Arboretum's interpretive biologist, Alan Watson. Every year more than 10,000 people take part in The Arboretum's nature interpretation program. O



Philip and Jean Gosling, centre, enjoy an outing at The Arboretum with Arboretum director Keith Ronald, left, and interpretive biologist Alan Watson.

Ronald, left, and interpretive biologist Alan Watson.

Photo by John Majors, Photographic Services.

# New research group squares off for a better environment

Some of the top environmental design experts on and off campus have united as the Landscape Research Group at Guelph (LRG<sup>2</sup>).

Directed by Prof. Bob Brown of the School of Landscape Architecture, LRG<sup>2</sup> is designed to promote and encourage multidisciplinary research on landscape planning and design issues.

"Much of the current landscape research in Ontario is being done in isolation," says Brown. "We think a holistic approach is better, so we're bringing the people and technology together that can design a true architecture for the environment. It's an exciting opportunity for researchers with vast and varied interests in landscape issues to work together under an informal organizational structure."

Landscape architecture has become an important part of land use planning. It allows land use recommendations to be made based on knowledge of how the suggested use will fit into existing environmental conditions, and what affect it will have on the larger landscape.

LRG<sup>2</sup>'s major areas of research will include multidisciplinary landscape research projects, open space and recreation planning research, agricultural land use planning research, microclimate modelling over different landscapes and historical and cultural landscape research.

"The basic research need in the profession of landscape architecture is for information and methods for use in design which would enable planners and designers to make appropriate land use decisions and to improve the

environment," says Brown.

Based in the School of Landscape Architecture, LRG<sup>2</sup> includes on-campus representation from the departments of Environmental Biology, Land Resource Science, Geography, Zoology and History, the schools of Engineering and Rural Planning and Development and the Office of Research, as well as all faculty in Landscape Architecture. Off campus, the group has attracted people with expertise in historical and cultural landscapes and applied ecology.

LRG<sup>2</sup> is already busy with several projects, including rehabilitation and conservation design at the University's Puslinch property and video modelling of Guelph's Hanlon Expressway.

Information technology plays a major role in LRG<sup>2</sup> projects. New computer applications have been set up in the School of Landscape Architecture for use in LRG<sup>2</sup> research. For example, computer-assisted drafting and design (CADD) is being used for simulation of proposed landscape changes and architectural additions. And a video-capture system permits video image manipulation through computer graphics — the superimposition of the image of a design on to live video — allowing decision makers to observe an effect before it is instituted.

Prof. Walter Kehm, director of the school, welcomes the move towards more landscape research at the University. "So often professional groups are involved in project-oriented design and issues," he says. "LRG<sup>2</sup> gives us the opportunity to look at the theoretical aspects of design as well." O

# The living lab for learning and research

Students in Alan Watson's nature interpretation course combine academics with hands-on experience. The interpretive biologist at The Arboretum Nature Centre, Watson uses The Arboretum as his classroom for "Nature Interpretation," a credit course offered in the fall through the Department of Environmental Biology.

The course is just one of many extension and research activities taking place at The Arboretum.

Two of the students in the course, now in its eighth year, planned and gave their interpretive presentations on one of the Nature Centre's regular Sunday afternoon walks for the local community. Leslie Work introduced the walkers to the impact of waste materials on the environment; Karen Higdon interpreted the winter ecology of The Arboretum's deer population.

Nature interpretation, Watson says, "is a communication process that is designed to reveal meanings and relationships of our natural heritage to the general public through first-hand experiences with objects, artifacts, landscapes and sites." The main objective of interpretation is to instill a conservation ethic in participants, he says.

Unlike other courses where students listen to lectures but never have an opportunity to apply their knowledge, "Nature Interpretation" provides manual as well as mental exposure to ecology.

Each student's presentation relates to site and season, and is evaluated by both the instructor and class participants. Some of the presentations are used for school programs, as well as the Nature Centre's regular community programs.

Arboretum director Prof. Keith Ronald describes his working turf as a big living laboratory. With 137 hectares of land to work with, there are opportunities for research ranging from botany and environmental biology to fine art.

A computerized database is currently being developed on the age, condition and location of trees in The Arboretum. This information can be used to generate an exchange of expertise with the keepers of other databases around the world.

Ronald believes that without past Arboretum research into endangered species, some of the rarer southern Ontario trees would have been in greater jeopardy than they are now. Arboretum curator Dr. John Ambrose agrees. "We're well known for studies on the conservation biology of rare Ontario trees in the Carolinian zone," he says.

Ronald, who became director a year ago, would like to see more being done in this area, perhaps through the development of research chairs and fellowships. "Environmental stewardship and arboreta go together," he says. "I hope that this will become a Canadian conservation centre, a conscience of man, a place for research and education of international status." O

The historic free trade agreement between Canada and the United States sets a positive tone worldwide for vital and pressing international trade negotiations, says Prof. Larry Martin, chair of the Department of Agricultural Economics and Business.

Martin says increasingly tough negotiations related to the international General Agreement on Tariffs and Trade (GATT), a multifaceted pact jointly written and followed by most nations, could be made easier by the Canada-U.S. example.

Most members of GATT — especially Japan and the European Economic Community — fiercely protect their farmers by subsidizing the products they grow, he says. "To date, the response, mostly by the U.S., has been to fight subsidy with more subsidy. This has harmed Canadian agriculture, as well as agriculture in other countries around the world."

# Graduate News

The following graduate students have successfully completed requirements for their PhD programs and will graduate at winter or spring convocation: Dianne Balfour, Zoology, whose thesis title is "Social Relationships in Litters of Domestic Dogs (*Canis Familiaris*)"; Eugenia Banks, Environmental Biology, "Integrated Control of Sclerotium Cepivorum Berk. in Organic Soil"; Anthony Danlami Barau, Agricultural Economics and Business, "A Simulation Analysis of the Effects of Credit Terms, Debt and Farm Size on Financial Performance on Ontario Dairy Farms"; Howard Covant, Bio-medical Sciences, "An Investigation on the Site of Retinoid Action in the Induction of Glands from the Hamster Cheek Pouch"; Stephanie Anne Teresa de Grandis, Microbiology, "The DNA Relatedness and Plasmid Profiles of Strains of *Yersinia Ruckeri*"; Bonnie Allorene Mallard, Veterinary Microbiology and Immunology, "The Influence of the Swine Major Histocompatibility Gene Complex (SLA) and Other Genetic Effects on Immune Response in Miniature Swine";

Paola Rozzi, Animal and Poultry Science, "International Comparison of Holstein Friesian Dairy Sires Proven in Italy, Canada and the United States"; and Jeffrey Peter Szabo, Chemistry and Biochemistry, "Characterization of the Electrodeposition and Photoelectrochemical Properties of Cadmium Selenide Deposited from Selenosulfite Solution."

The following graduate students have successfully completed requirements for their D.V.Sc. programs and will graduate at winter convocation: Brian Robert Broxup, Pathology, whose major paper is entitled "A Morphometric Evaluation of Hepatocellular Proliferative Lesions in the Rat Liver"; Delwyn Patricia Keane, Pathology, "Agents of Equine Viral Encephalomyelitis: Correlation of Serum and Cerebrospinal Fluid Antibodies"; Peter James O'Brien, Pathology, "Compensatory Adaptation of Myocardial Membranes to Chronic Metabolic Overload"; and Jacqueline Sinclair Rand, Clinical Studies, "Cerebrospinal Fluid in the Cat." O

# Free trade deal offering new hope for ending subsidy war: Martin

Martin says the United States has convinced other GATT members that these subsidies should be items for negotiation when the countries meet periodically to discuss the agreement. And, he says, the Canada-U.S. free trade deal is an ideal example to lay on the table.

"If the two largest trading partners in the world can successfully reduce barriers to trade," he says, "then they can point to this as a model for the negotiations with other countries."

Martin says the deal's move towards more harmonious health, grading and safety standards between the two countries will also be important for GATT negotiations. But, he says, one of the most significant aspects of the agreement has been largely ignored.

"It seems to have escaped many people's minds that we are not looking here at a choice between the free trade agreement and the status quo; the status quo in trade with the U.S. is

simply not an option."

Martin says American trade remedy laws are inconsistent with GATT and have been used increasingly by U.S. producer groups — with the support of Congress — to obtain protection from imports. Unless the U.S. Congress is checked, he says, it may soon pass proposed legislation that is even more punitive and protectionist.

"Under the free trade deal, the United States has pledged to negotiate with Canada a new trade remedy regime that is consistent with GATT. If this pledge is fulfilled, then Canadians will know the rules, and access to U.S. markets can be assured for Canadian exporters."

Martin says the choice is to move towards a rational set of rules governing subsidies, dumping and countervailing duties "or to continue to move towards being victimized by more protectionism." O



# Research report

## Sexual potency preserved through modified operation

Bladder cancer kills 800 Canadian men each year. Although aggressive early treatment results in a survival rate of more than 50 per cent, the majority of patients become impotent. New hope for these patients lies in co-operative research being done between OVC and Dr. John Connolly at Women's College Hospital in Toronto.

Current treatment for bladder cancer involves the removal of the cancerous tissue, the bladder itself and the accompanying prostate gland. Once the bladder is removed, a system for the collection and storage of urine must be fashioned. Many techniques involve collection bags or catheterization.

One alternative — the Camey operation — uses a piece of intestine to form a new bladder that is attached to the urinary outflow tract to allow control of urination. The major drawback is that the nerves that allow patients to control urination and penile erection are frequently damaged during surgery.

A team led by Profs. Allen Binnington and Cindy Fries, Clinical Studies, successfully used a modification of the standard Camey operation on eight dogs that all retained continence following surgery. By retaining the prostate capsule, the surgeons were able to preserve the nerves essential to urinary control and penile

erection. All the dogs displayed normal sexual functions following this operation.

The procedure has direct applications to human medicine and should soon be suitable for use in humans, says project pathologist Prof. Ted Valli. "This modification should overcome the serious psychological effects of loss of sexual function on middle-aged male patients," he says.

No suitable technique for bladder cancer treatment in pet animals existed before the procedure was developed, says Valli. Urine-collecting devices for pets are impractical and most owners cannot catheterize their pets the required six times a day.

The research animals maintained excellent general health and were able to urinate normally. They were continent for an average of one hour, but it is hoped that if funding can be secured for further research, that period can be extended to four hours, making the operation practical for owners whose male dogs are afflicted with bladder cancer.

The study by Binnington, Connolly and Fries is supported by the Women's College Hospital and the Pet Trust Fund, an OVC-administered program designed to advance health care research in companion animals. O

## He carried the torch

George Perry, a U of G refrigeration mechanic, was one of the few Canadians chosen to carry the Olympic torch. Unlike many of the torch bearers, Perry submitted only one application. "I found out later that other people put hundreds and hundreds in," he says.

Perry, who ran his kilometre on the outskirts of northern Guelph Jan. 5, says he "didn't believe it" when he found out his application had been chosen. His first thought was that everyone who had applied received an acceptance, and that the real winners were chosen later. "But when the stuff came back for the measurements of the track suit, I knew."

Preparations for carrying the torch were relatively simple for Perry, who works out regularly at a club and participates in the Terry Fox run every year. But the run itself was unlike anything he had ever done. He was so involved with what he was doing, he can't remember seeing family and friends who were there to cheer him on.

"I was about two feet high off the ground. I wasn't even in focus with things. I'd say it was one of the most exciting things of my life." O



George Perry.

## Bisexual counselling can lower AIDS risk

Acceptance of bisexuality as a basic sexual orientation would make it easier to educate bisexuals about AIDS, says Prof. Claude Guldner, Family Studies. Guldner says people who have difficulty recognizing and identifying themselves as bisexuals are difficult to educate.

"You can go directly into the gay context and educate the gay," he says, "and we can educate the heterosexual." But because there's a problem in recognizing and identifying bisexuals, they are more difficult to influence, he says.

Guldner believes counselling may become one of the primary means of AIDS education for bisexuals and their partners.

"The tendency for most therapists is to look at individuals as either being heterosexual or homosexual," he says. As a result, most therapists — whether heterosexual or gay themselves, look on any same-sex behavior as an indication that a person is really homosexual. Gay therapists are "reluctant to accept bisexuality as a phenomenon," he says. Instead, they view it as a transition to homosexuality.

Between 1980 and 1986, Guldner and his wife, Dixie, a therapist in private practice, clinically assessed 54 couples in which one partner was bisexual. They believe that bisexuality is indeed a separate sexual orientation, different from both heterosexuality and homosexuality.

Guldner points to the Kinsey scale, developed in 1948, which assesses individuals on their sexual behavior by rating them from zero to six. Zero indicates exclusively heterosexual behavior; six represents exclusively homosexual behavior. Anything in the one-to-five range indicates ambisexual behavior, ranging from incidental to more than incidental to equal amounts of heterosexual and homosexual behavior.

But many people in the one-to-three range who experience some homosexual behavior and feelings tend not to identify themselves as homosexuals, says Guldner. So they resort to secrecy because there is no place for them to affirm their sexual identity.

The bisexual "has an erotic, emotional and social ability to relate relatively equally to both sexes," he says. His experiences in therapy indicate that when couples accept this, they are able to work out "a very satisfying marital interaction."

Because bisexuals often feel split, the Guldners' marital therapy is aimed at helping the partner understand that the bisexual's heterosexual side is fully committed; it is only the bisexual side that is seeking some kind of recognition or identification.

Through therapy, the Guldners instruct such couples that all sexual activity must take place with the use of condoms. And in spite of the fact that the bisexuals the Guldners see are not necessarily actively involved in anonymous sex, "our belief is that if there's going to be any involvement that's not monogamous, then all sex — both in the marital relationship and in the other — must occur through safe sex."

Without proper counselling, Guldner says, there is still a population in jeopardy because of the AIDS virus. If sexual behavior changes through counselling, he believes it is possible to lower the AIDS risk.

Guldner presented these and other findings to the American Association for Marriage and Family Therapy in Chicago last October, and will present the same paper on his work at the American Association for Pastoral Counsellors Conference in Portland, Oregon, in April. O

## Title change clarifies role

Dean of Research Larry Milligan has announced a title change for the University directorship held by Dr. Jim Mahone.

Mahone's new title is director of University-OMAF programs. Previously, it was director, contractual research and services, OMAF.

Mahone's duties remain the same — imparting a focused, central University presence into the fulfilment of the \$26-million contract for research and services with the Ontario Ministry of Agriculture and Food, and handling its related programs, says Milligan.

Milligan says the change is being made to clarify Mahone's role and more accurately reflect the duties of his position. "The previous title suggested he was an employee of OMAF, which is not true," he says. "During the 16 months of his appointment, there has been a substantial misinterpretation of his position because of its title," he said.

The creation of a director for the University-OMAF programs was recommended in the presidential task force study of the Office of Research in 1985. O

## Controlling the environment

University engineers can control the weather — at least within the confines of a small building 12 feet square and eight feet high. An environmental control chamber, purchased last year by the School of Engineering with a \$46,250 grant from the Natural Sciences and Engineering Research Council, has become a focal point for many research efforts looking for solutions to problems caused by the environment.

The environment is what we live in. It affects everything we do, everything we eat or drink and all the natural resources we depend on for the preservation of life. Most of us are familiar with environmental control in terms of indoor heating and cooling and the refrigeration of food products and recognize the benefits to public health.

There are also many opportunities for agricultural research to benefit from the ability to control environmental variables. Among these are the ventilation and environment of farm buildings, freezing and thawing of soils, the storage of farm products on the farm, the transportation of food products and the improvement of the shelf life of foods.

The chamber allows researchers to control temperatures between -20 C and 50 C and the relative humidity between 30 and 90 per cent. A microprocessor permits the system to cycle within set conditions and will record and process the information collected. This gives hydrologists the opportunity to study the influence of the freezing and thawing cycle in soil to find out why erosion from frozen soil is often more serious.

Other projected uses for the chamber are to simulate changes in climate that affect the thermal resistance of sprayed-on polyurethane insulation, to determine if freezing and thawing alters the effectiveness of farm chemicals and livestock medications, and to study the effect of fluctuations in temperature and humidity on the shelf life of fresh fruits and vegetables. O

## Color my garden winter

If you think winter is drab and colorless, then you aren't looking in the right place. U of G landscape architecture students are designing gardens that are as colorful and interesting in February as they are in May.

Nature provides a variety of colors, textures and shapes that can enhance a backyard landscape, a park or a commercial building in winter, says Prof. Walter Kehm, director of the School of Landscape Architecture. Even without its leaves, a mountain ash will attract the eye with its bright orange berries. A Colorado blue spruce, a wispy white pine and a shiny holly add contrasting green colors, while the vibrant red stem of a sumac emerging from a snow drift can provide a dramatic contrast.

The snow itself and the prevailing winds provide constant motion to winter landscapes and offer the designer an opportunity to encourage the formation of interesting snow drifts. Effective plantings can create a different scene every morning.

Iceicles hanging from the roof line are a familiar sight in winter, but Kehm suggests hanging a light chain from the downspout to create an interesting ice sculpture. A snowscape is enhanced by sunshine on ice formations, bronze or painted sculptures and by artificial night lighting, he says.

People who enjoy wildlife can choose trees and shrubs that provide food and shelter for birds. This is another effective way of using nature's colors to brighten a backyard garden, says Kehm.

Both residential and commercial properties can feature a unique centerpiece in their winter landscape with the use of a heated fountain. With a little bit of ingenuity, a heat exchanger can be used to warm the fountain water from heat normally expelled through the building's heating system. An interesting piece of design work in Boston has created a fountain that sprays a fine water mist in summer and steam in winter, says Kehm. The moving cloud effect is enhanced by a winter storm that blows the steam on to the surrounding snow drifts, where it melts the snow into unusual ice sculptures.

Innovative design in winter landscapes can help us enjoy our northern climate. Experiments with ice sculpture and snow painting on campus have drawn smiles and repeated visits to the School of Landscape Architecture from people who would otherwise hurry by with their heads bent against the wind, says Kehm. O

## Contributions welcome

At Guelph welcomes contributions from members of the University community.

"Letters to the Editor" are invited, and the "Faculty, Staff & Student Activities" section has been reinstated. Submissions are also welcome for "Forum," a section for editorial articles, and a "Speeches" column. If you have given a speech recently — or read one that is relevant to the University — share it through At Guelph. Also, if you know someone who would make a good subject for a human interest article for the "Focus" column, just give us a call.

All submissions should be typed, double spaced, and signed by the correspondent. Each will be verified by a phone call. The executive editor reserves the right to select, edit and position all copy.

If you have some ideas on how to make At Guelph a more informed and involved University community publication, call Public Relations and Information, Level 4, University Centre, Ext. 3864. O



## An earnest effort

The Vancouver Arts Club Theatre's production of *The Importance of Being Earnest* is on stage at War Memorial Hall Feb. 17 at 8 p.m. Tickets range from \$8.50 to \$11.50 and are available at the University Centre box office, The Corner in Stone Road Mall, Sam the Record Man and the Bookshelf Cafe. A handling charge of 50 cents will be applied to each ticket.

## Pet study needs volunteers

Researchers in the Department of Psychology are studying children and their pets. Eleven- to 12-year-old children with one dog are needed to participate in the study, which involves talking about their relationship with their dog. For more information, call Susan Rosenstein at Ext. 8319 or 763-0273 or Dr. Linda Wood at Ext. 3977.

## Concert to benefit Sahel

A benefit concert Feb. 2 will aid a project improving the water supply in the drought-ridden Sahel region of North Africa. Piano duo Anagnoson and Kinton and Judith Croker on the piano, celtic harp, flute and synthesizer will perform at the concert sponsored by UFS Sahel (Utilization of Fossil Seas of the Sahel). The African Students' Association will present a fashion show of traditional African dress at the event. The concert and fashion show begin at 8 p.m. in War Memorial Hall. Tickets are \$10 (\$5 for students) and are available at the University Centre box office, the Bookshelf Cafe, Birdland Music in Fergus and Wellington Fare in Elora.

## Workshop on wild bird care

OVC's Wild Bird Clinic will present a one-day course Feb. 20 on the care and handling of injured wild birds. The course has been designed for humane society workers, animal health technicians, veterinarians and anyone involved with wild bird rehabilitation. Topics will include regulations and the law, wild bird identification, nutrition and housing, handling and physical examination, principles of emergency treatment, open wound and fracture management, rehabilitation and a series of hands-on sessions. Cost of the workshop, including materials, lunch and coffee breaks, is \$50 per person. For more information or to register, contact Central Reservations and Conferences, Room 124, Johnston Hall, Ext. 3503. Deadline for registration is Feb. 1.

## Interim SSHRC president

John Leyerle has been appointed interim president of the Social Sciences and Humanities Research Council of Canada. A professor of English at the University of Toronto, he will serve as interim president for a term ending April 30 or until a new president is appointed.

## New travel agency

Travel Cuts is scheduled to open Feb. 1 on Level 1 of the University Centre. For more information, call 763-1660 or Ext. 8540.

## Let it snow

Does anyone or anything benefit from snow? Come out for the Sunday afternoon walk at The Arboretum Nature Centre Jan. 31 at 2 p.m. and learn just how essential the white stuff can be.

## Convocation parking

During winter convocation ceremonies Feb. 5, parking lots P23, P24 and P44 will be reserved for visitor use. Alternate parking for regular users can be found in lots P7, P14, P15, P17, P19 (front section) and P48. Anyone holding a premium parking permit for P24 will be allowed to park in the designated premium parking zone.

## Distinguished lecturer series

The Guelph-Waterloo Centre for Graduate Work in Chemistry will host Prof. Peter Guengerich, director of the Centre in Molecular Toxicology at Nashville's Vanderbilt University, from Feb. 21 to 26. Guengerich will deliver the following lectures: "Characterization of Rat and Human Cytochrome P-450 Enzymes and Genes: Relationship to Metabolism of Xenobiotics" Feb. 22, "Oxidation Reactions Catalyzed by Cytochrome P-450 Enzymes: Chemistry and Metabolism" Feb. 24 and "Formation of Ethylene Dibromide/Glutathione/DNA Adducts and their Biological Relevance" Feb. 25. For more information, call Andrea Wetmore at Ext. 3865.

## Wine literacy

Continuing Education is offering two courses in wine appreciation beginning Feb. 4 and 11. Microbiology professor Ron Subden, who holds certificates from the British Wine Education Guild, is course instructor. For more information, call Ext. 3956.

## Industrial art

An exhibition of drawings of industrial subjects by artist Alma Duncan continues at the Macdonald Stewart Art Centre until March 9. The drawings span three separate periods of activity: 1943-47, 1956-58 and 1985-86. Duncan began sketching men at work in munitions plants during the Second World War, when she was attracted to the mystique of machines within Western culture. In the 1950s, she depicted machines for their own sake, de-emphasizing the human presence. In works dating from the 1980s, she demonstrates a renewed interest in the action of working men. The art centre is open daily from noon to 5 p.m. except Mondays. Admission is free.

## Klink lecture

The Ontario Institute of Agrologists presents Dr. Kenneth Farrell of the University of California speaking on "Agricultural Trade and Development" at the Aberfoyle Community Centre Feb. 2 at noon. Cost of lunch is \$9. For reservations, call 837-2820.

## GSF box office opens

The Guelph Spring Festival opens its box office for the 1988 season Feb. 8. The new location is at the rear of Stories bookshop, 10 Carden St. Box office hours are 10 a.m. to 5:30 p.m., Monday to Friday. Ticket orders can be placed in person or by phone at 821-7570. From out of town, call toll free 1-800-265-7279. The festival runs from May 19 to June 5.

## Citizenship development classes

The Guelph and District Multicultural Centre holds information classes for people applying for Canadian citizenship. Classes will run Feb. 17, 24 and March 2 from 7:30 to 9:30 p.m. at the centre, 128 Woolwich St., Suite 203. Topics include history, geography, government of Canada, and the rights and privileges of a Canadian citizen. Cost is \$10. To register, call 836-2222.

## Political thought

Continuing Education is offering a number of non-credit courses on Canadian and world politics. "John F. Kennedy: The Man Behind the Myth" begins Feb. 1, and runs for eight Monday evenings. "Free Trade: Yes or No?" starts Feb. 11 for four Thursday evenings. "The Soviet Union Today" runs for eight Wednesday evenings beginning Feb. 24. "Great Books" begins tonight and runs for seven more weeks. For more information, call Room 160, Johnston Hall, Ext. 3957.

## Film cancelled

The local IDEA committee (Institute for Development Education through the Arts) has cancelled the scheduled showing of "Women and Art — Madubani Exhibit" at the Faculty Club Feb. 1 to 26.

## Food as statecraft

Prof. Robert Henderson, department of political science, University of Western Ontario, will speak on "Food as Economic Statecraft: Canadian and American Food Aid/Trade with African Countries" Feb. 11 at 2 p.m. in Room 141, Animal Science building. The lecture is part of the food security research seminar series sponsored by the Program for Food Security Research and the Development Education Program, and supported by Donner Canadian Foundation and the Canadian International Development Agency.

## RRSP seminar

The Canadian Imperial Bank of Commerce is presenting a one-hour seminar on self-directed RRSPs Feb. 17 at 5:30 p.m. in the University Centre. Faculty, staff and students are welcome. To reserve a ticket, call 824-6520.

## India Republic Day

The India Students Association presents Republic Day celebrations marking the 38th anniversary of the formation of India as a republic. A cultural show will be held Jan. 30 at

8 p.m. in War Memorial Hall. General tickets are \$5.50 at the University Centre box office. Members can buy tickets from the association for \$4.

## Sculptors needed

The Rockmosa Winter Carnival is looking for budding artists to help build snow sculptures during its fourth annual festival in Rockwood Feb. 5 and 6. For more information, call Erich Barth, Ext. 8706, or Rob Bonner, 856-4891.

## Asian language bursaries

Bursaries for Southeast Asian language study are offered by the University of Toronto-York University Joint Centre for Asia Pacific Studies. Full-time students enrolled at Ontario universities are eligible for grants of up to \$1,000. Applications must be submitted by Feb. 2. For more information and conditions, call Franlie Allen, Ext. 6915, or the centre at 416-978-6820.

## Development grants

The Development Education Program offers small grants to support activities by campus groups related to international development. Grants range from \$25 to \$75, and are available until March 31. For application forms and more information, call Ext. 3778.

# Courses

## Computing Services offers seminars

Computing Services will offer a series of free orientation seminars during the winter semester. The two-hour seminars will be held in Room 212, ICS building. Register in person in Room 204, ICS, or call Ext. 8888 beginning Jan. 29.

A "Technical Introduction to Communications" will be offered Feb. 10 at 10 a.m., providing a technical introduction to data communication and computer network technology. The emphasis is on the personal computer and its role in communications. Participants will gain an understanding of the basic components and how they work together to implement a communications system.

"An Introduction to CoSy," Feb. 11 at 10 a.m., introduces the fundamentals of computer conferencing, offering step-by-step information on how to join conferences, process messages, and send and receive mail.

On Feb. 15 at 10 a.m., "Introduction to SAS/Day 1" will provide an overview of SAS and related SAS products. Participants will learn about a key component of SAS — the data step — and its underlying commands, including assignment statements, functions, expressions and logical operators. A brief review of CMS will be provided, but previous knowledge of CMS and XEDIT is assumed.

"Introduction to SAS/Day 2," Feb. 16 at 10 a.m., discusses the second major component of SAS — PROC steps. Procedures to be presented include sorting, correlation, means, anovas, regressions and charting.

"SAS/GRAPH" will be offered Feb. 17 at 10 a.m., giving an overview of SAS/GRAPH procedures, explaining how to assemble and run a SAS/GRAPH program, and outlining the plotting and devices available (i.e. Zeta plotter, SAST).

On Feb. 18 at 10 a.m., "SAS/PC" will provide participants with an overview of the

## Name steaks

The Whippetree is featuring a selection of specialty steaks from Jan. 27 to 30. Entrees will include Steak Diane, Steak Robert and Steak Teriyaki. For reservations, call Ext. 3500. The Whip Centre Stage presents comedienne Bertia from Jan. 28 to Jan. 30. Shows start at 10 p.m.

## RRSPs for staff

Featured guest speaker at the U of G Staff Association's lunch-time educational seminar Feb. 2 is Linda Burrows of Co-operative Trust, who will discuss RRSPs. It begins at noon in Room 442, University Centre. All members are invited to attend.

## Computer courses

Continuing Education is offering several non-credit courses on computing this semester. For details, call Ext. 3956.

## Student federation meets

The Ontario Federation of Students is holding its winter conference on campus Jan. 27 to 31. Lyn McLeod, minister of colleges and universities, will field questions from delegates during a question-and-answer period Jan. 28 at 4:30 p.m. in Room 442, University Centre.

PC/SAS program available for the PC microcomputer.

"Introduction to NetNorth," Feb. 23 at 10 a.m., discusses the use of the NetNorth network as a means of exchanging information with colleagues at Canadian and worldwide institutions. The seminar will provide step-by-step information on how to send and receive mail through the network, and how to use the various features available. A knowledge of basic CMS commands is required.

On Feb. 24 at 1 p.m., "Scientific Computing" will provide a survey of equipment available and some general guidelines for carrying out scientific computing will be given. Topics include: the IBM4381 mainframe; the FPS164 array processor; the CRAY supercomputer at Toronto; optimizing program code; performance monitoring; the IMSL scientific routine library; and symbolic computations. A knowledge of FORTRAN and some acquaintance with CMS are assumed.

"WordPerfect Special Features," Feb. 25 at 10 a.m., offers an introductory overview of some of WordPerfect's special attractions, including form letters, labels, footnotes, tables of content, macros and columns. To benefit from this overview, a working knowledge of WordPerfect is required.

Computing Services offers students, faculty and staff the opportunity to learn various microcomputer software packages on an individual hands-on basis. The following computer-based training modules are available for use in Room 204, ICS building: PC DOS, WordPerfect, dBase III and LOTUS. To book time with one of these training packages, call Ext. 8888. (Computing Services is open during the lunch hour.)

## OAC computer literacy courses

OAC is offering the following free, non-credit computer literacy courses this semester. The basic programs have been broadened to reflect the changing needs of computer users on campus, and now include communications and the C programming language. Courses for graduate students are also offered again.

To register or to obtain information about the content of the courses, call Ext. 6514. The courses are as follows:

Course title	Length	Begins
Intro to SAS	10 hrs.	Feb. 1
Intro to FORTRAN	10 hrs.	Feb. 2
Micro Word Processing & CoSy Communications	2 hrs.	Feb. 4
The Services Provided by Communications Services	2 hrs.	Feb. 11
Intro to WordPerfect	6 hrs.	Feb. 15
The C Programming Language	10 hrs.	Feb. 16
Technical Introduction to Communications	2 hrs.	Feb. 18
Slide & Hard Copy Graphics On Microcomputer Using LOTUS Freelance Plus	3 hrs.	Feb. 19
Intro to LOTUS 1-2-3	4 hrs.	Feb. 24
Intro to DBASE III	4 hrs.	Feb. 25
Linear Programming	9 hrs.	March 1
Accessing Library Databases	2 hrs.	March 2
Intro to Scientific Computing	2 hrs.	March 3



# Coming events

## WEDNESDAY, Jan. 27

**Worship** - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.  
**Instructional Development Workshop** - "Constructing Valid Multiple-Choice Exams," Jim Motin, 9 a.m., MacKinnon 132.  
**Seminar** - "Introduction to NetNorth," 10 a.m., ICS 212, register at Ext. 8888.  
**Biochemistry Seminar** - "Enzymes from *Saccharomyces cerevisiae* that Catalyze Steps in Genetic Recombination," David Evans, 12:10 p.m., MacNaughton 222.  
**Botany Seminar** - "Conifer Somatic Embryogenesis," Francine Tremblay, 3 p.m., Botany/Genetics/Zoology 117.  
**Continuing Education** - "French II," 7 p.m., 10 weeks; "Spanish I," "Spanish II," 7 p.m., 10 weeks; "Introduction to Mandarin Chinese," 7 p.m., 10 weeks; "Great Books," 7 p.m., eight weeks; "Training and Development," 10 weeks; "Public Speaking and Presentation Skills," 10 weeks, register at Ext. 3956/7.  
**Volleyball** - Western at Guelph, women's, 6 p.m., men's, 8 p.m., Athletics Centre.  
**Lecture** - "The Soviet Perestroika (Restructuring): Reality or Public Relations?" Fred Eidlin, 8 p.m., UC 103.

## THURSDAY, Jan. 28

**Pathology Seminar** - "Bacterial Gill Disease in Salmonids - A Description and Definition for the Disease in Ontario Hatcheries," V. Ostland, 11:10 a.m. Pathology 220.  
**Worship** - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.  
**Concert** - Stringendo, 12:10 and 1:10 p.m., MacKinnon 107.  
**Botany Seminar** - "Comparative Aspects of Floral Development in the Snapdragon Family (Scrophulariaceae)," Judith Canne-Hilliker, 3:10 p.m., Botany/Genetics/Zoology 259.  
**Continuing Education** - "French I," "French III," "French IV," 7 p.m., 10 weeks; "Mystery Writing," 7:30 p.m., eight weeks; "Labor Market Economics," 10 weeks; "Labor-Management Relations," 10 weeks; "Effective Writing," 10 weeks, register at Ext. 3956/7.  
**Illustrated Talk** - "Costa Rica/Caribbean: Adventures in Tropical Veterinary Medicine," 7 p.m., Clinical Studies 508.

## FRIDAY, Jan. 29

**Worship** - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.  
**Hockey** - York at Guelph, men's, 7:30 p.m., Memorial Gardens.  
**Volleyball** - Alumni at Guelph, women's and men's, 8 p.m.  
**Humanities Association** - "The Eye Hears and the Ear Sees," 8 p.m., MacNaughton 113, association members and students free, others \$4.

## SATURDAY, Jan. 30

**Continuing Education** - "Word Perfect I," 9:30 a.m. to 4:30 p.m., register at Ext. 3956/7.  
**Hockey** - Queen's at Guelph, women's, 11:30 a.m., Athletics Centre.  
**Worship** - Muslim Students' Association Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
**Dinner Theatre** - Theatre in the Trees, *Key for Two*, 6 p.m., The Arboretum Centre, \$25.50.  
**India Students Association** - Republic Day Celebrations, 8 p.m., War Memorial Hall, \$5.

## SUNDAY, Jan. 31

**Worship** - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 10:30 a.m., UC 103.  
**Arboretum** - Sunday Afternoon Walk, "Snow," 2 p.m., The Arboretum Nature Centre.  
**International Cinema** - "Les Bons Debaras," (Canada), 8 p.m., MacNaughton 105, \$2.

## MONDAY, Feb. 1

**Worship** - Catholic Mass, 5:10 p.m., Chapel, UC Level 5.  
**Reading and Discussion** - "Lecture de Textes," Gabrielle Poulin, 10 a.m., Grand Salon, Maison Française.

**Our World** - "Refugees - In or Out?" 12:10 p.m., UC 441.  
**Engineering Graduate Seminar** - "Inter-rill Soil Erosion and Transport," Avinash Agarwal, 3:10 p.m., Engineering 112A.  
**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.  
**Commtech '88** - "The Protection of Intellectual Property," 4 p.m., UC 441.  
**Continuing Education** - "John F. Kennedy: The Man Behind the Myth," 7 p.m., eight weeks; "Singing for Non-Singers," 7:30 p.m., eight weeks, register at Ext. 3956/7.

## TUESDAY, Feb. 2

**Instructional Development** - "What Constitutes an 'A' in My Course?" 10 a.m., Animal Science 141.  
**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.  
**Staff Association** - Educational Seminar, "RRSPs," noon, UC 442.  
**Continuing Education** - "Introduction to LOTUS 1-2-3," 7:30 p.m., three weeks; "Video Production," 7 p.m., eight weeks, register at Ext. 3956/7.  
**Sahel Benefit Concert** - Anagnoson and Kinton, Judith Croker, 8 p.m., War Memorial Hall, \$10 general, \$5 students.

## WEDNESDAY, Feb. 3

**Worship** - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.  
**Biochemistry Seminar** - "Plant-Plant Virus Interactions," Annette Nassuth, 12:10 p.m., MacNaughton 222.  
**Botany Seminar** - "Systematics and Phyletic Relations in *Chenopodium* of Western North America," Terrence Walters, 3 p.m., Botany/Genetics/Zoology 117.  
**Basketball** - Waterloo at Guelph, women's, 6 p.m., men's, 8 p.m., Athletics Centre.  
**Continuing Education** - "Entrepreneurship: Planning for Business Success," 7 p.m., six weeks; "Residential Landscape Design," 7:30 p.m., eight weeks; "Philosophy of Religion," 7:30 p.m., eight weeks, register at Ext. 3956/7.

## THURSDAY, Feb. 4

**Instructional Development** - "Keeping in Contact: Using T-CoSy in a Course," noon, Blackwood Hall 211.  
**Pathology Seminar** - "Case Report: An Outbreak of Budgerigar Fledgling Disease in an Aviary," J. Gough, 11:10 a.m. Pathology 220.  
**Worship** - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.  
**Concert** - Barry Schiffman, violin, and Bernadine Blaha, piano, 12:10 and 1:10 p.m., MacKinnon 107.

## Awards



Psychology students with high academic standing were honored at a recent awards presentation held at the Faculty Club. Front row, left to right, are Sally Kydd of Erin, Prof. Harvey Mornurek, graduate student co-ordinator, and Victoria Broersma of Guelph. Back row, left to right,

**Continuing Education** - "Calligraphy," 7:30 p.m., 10 weeks, register at Ext. 3956/7.  
**Chappel Lecture** - "Is Cancer Caused by Cancer Genes, or the Folly of Reductionism?" Harry Rubin, 8 p.m., Macdonald Hall 149.

## FRIDAY, Feb. 5

**Worship** - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.  
**Convocation** - PhD, D.V.Sc., MA, M.Sc., MLA, DVM, M.Ag., BA and graduate diploma, 10 a.m.; B.A.Sc., B.Comm., B.Sc., B.Sc.(H.K.), B.Sc.(Agr.), B.Sc.(Eng.) and associate diploma in agriculture, 2 p.m., War Memorial Hall.  
**Current Issues in Agriculture** - "Acid Rain," Gerry Hofstra, 3:10 p.m., Crop Science 121.

## SATURDAY, Feb. 6

**Worship** - Muslim Students' Association, Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
**Dinner Theatre** - Theatre in the Trees, *Key for Two*, 6 p.m., The Arboretum Centre, \$25.50.

## SUNDAY, Feb. 7

**Children's Concert** - Mr. Dressup, 1 and 3 p.m., War Memorial Hall, \$6.  
**Arboretum Day** - February Frolic, guided walks at 1 and 3:30 p.m., leaving from the Nature Centre; concert, Norbert Kraft, guitar, and Bonnie Silver, harpsichord, 2:30 p.m., The Centennial Centre.  
**International Cinema** - "And the Ship Sails On," (Italy), 8 p.m., MacNaughton 105, \$2.

## MONDAY, Feb. 8

**Our World** - "Human Rights in Singapore and Malaysia - An Amnesty International Perspective," 12:10 p.m., UC 441.  
**Commtech '88** - "New Product Development and Commercial Exploitation," 4 p.m., UC 103.  
**Concert/Lecture** - Dr. Peggie Sampson and the Hogarth Consort of Vocals, 4:15 p.m., MacKinnon 107.  
**Worship** - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, Feb. 9

**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.  
**Continuing Education** - "The Wonder of Birds," 7 p.m., five weeks; "Marketing and Media Buying," 7 p.m., six weeks; "Wine Appreciation II," 7 p.m., 11 weeks, call Ext. 3956/7.

## WEDNESDAY, Feb. 10

**Worship** - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.  
**Biochemistry Seminar** - "Malondialdehyde

**Derivatives in Urine**, Harold Draper, 12:10 p.m., MacNaughton 222.  
**Botany Seminar** - "Biosynthesis and Photosynthetic Allocation in Microalgae," Ralph Smith, 3 p.m., Botany/Genetics/Zoology 117.

## Letters to the Editor

Student input sought

Members of the selection committee for the associate vice-president, academic, are seeking nominees for the position.

As a member of the selection committee, I ask that all interested students (both undergraduate and graduate) and student groups provide comment to me as soon as possible on the attributes that they would wish to see held by prospective candidates for the position.

Reporting to the vice-president, academic, the associate vice-president, academic, shares major responsibility with the associate vice-president, student affairs, for providing an integrated and balanced approach to the institution's educational activities. The office is specifically responsible for operational aspects of the undergraduate programs and shares major responsibility for the University's liaison program and the allocation of space to academic units.

The Registrar's Office and the Office for Educational Practice report to the associate vice-president, academic; a study in progress may recommend the addition of further line management responsibilities.

David Handy,  
 Box C3811, University Centre,  
 or CoSy: "handy."

## Faculty activities

Prof. Henrick Malik, Mathematics and Statistics, has been elected a member of the International Statistical Institute in recognition of his contributions to the field of statistical methods. The institute is an autonomous society whose objective is the development and improvement of statistical methods throughout the world. Malik is the only member of the institute from this University. O

Prof. Jim Motin, the department's undergraduate studies co-ordinator. Absent: Small and Jonathan Golden of Toronto.

John Majorossy, Photographic Services.



# "The Peak" — student newspaper competition

U of G's second student newspaper rolled off the press Jan. 7, introducing competition to the ranks of the student free press on campus.

The idea for *The Peak* — also known as the Journalism Club — was spawned last semester during an evening at the Brass Taps, says editor-in-chief Nona Robinson. "We wanted to do something just for fun without a set precedent for what we were doing."

Associate editor Doug Powell, who was editor-in-chief of *The Ontario* last semester, agrees. "I think we just wanted to do something different, and we couldn't do that at *The Ontario*."

Robinson, who was features editor at *The Ontario* last semester, believes there is room for two student newspapers on campus — one more serious (*The Ontario*), and one more entertaining (*The Peak*). "It will be good for both papers to have some competition," she says. "We're certainly not trying to nurture any hard feelings."

Robinson sees several differences in format between the two campus papers. *The Peak* carries "advertisements," a service that allows student groups to pay a cut rate to put copy in the paper or to display ads.

As well, she wants *The Peak* to take a less newsy approach to major issues. Rather, the

paper will likely devote a large amount of space to in-depth coverage of events through editorials, differing viewpoints, and so on. The serious articles will be interspersed with more humorous ones.

At the moment, the paper has club status. Robinson is quick to squelch rumors about the club's computer system and about its relationship with the Central Student Association.

## Job opportunities

As of *At Guelph* deadline Jan. 22, 1988, the following opportunities were available:  
**Registration Clerk**, Continuing Education; temporary part-time. Salary: \$7.90 per hour.

*The following positions were available to on-campus employees only:*

**Library Assistant I**, Track 2, Circulation/Reserve, Library. Salary range: \$276.64 minimum; \$320.83 job rate (level 5); \$436.76 maximum.

**Technician**, Horticultural Science. Salary range: \$481.04 minimum; \$557.19 job rate (level 5); \$692.11 maximum.

**Draftsperson**, Planning Department. Salary range: \$353.20 minimum; \$408.07 job rate (level 5); \$506.70 maximum.

**Senior Buyer**, Purchasing Department. Salary range: \$544.98 minimum; \$624.29 job rate (level 5); \$769.33 maximum.

**Medical Laboratory Technician**, Pathology Department, OVC. Salary range: \$414.48 minimum; \$479.33 job rate (level 5); \$594.59 maximum.

**Agricultural Assistant**, Animal Care Services. Salary range: \$408.86 start rate; \$431.33 six-month rate; \$450.64 one-year job rate.

**Secretary II**, Centre for International Programs. Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

**Custodian 2**, Housekeeping Department. Job rate: \$10.27 per hour; probation rate: \$ .20 per hour lower than job rate.

**Custodian 3**, Housekeeping Department. Job rate: \$10.75 per hour; probation rate: \$ .20 per hour lower than job rate.

**Custodian 4**, Housekeeping Department; two positions. Job rate: \$11.20 per hour; probation rate: \$ .20 per hour lower than job rate.

**Lead Hand I-4**, Housekeeping Department. Job rate: \$11.67 per hour; probation rate: \$ .20 per hour lower than job rate.

**Treasury Clerk**, Alumni Affairs and Development. Salary grade: \$276.64 minimum; \$320.83 job rate (level 5); \$385.08 maximum.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.

## Personals

**For Sale:** 1982 Chevette diesel, four-door, no rust, certified, 118,000 km, Mira or Hans. 763-6113. Three-bedroom house near downtown, 821-3814. Bateman, Parker, Calle Prints, 824-5865, after 4:30 p.m. Custom-made solid harvest-style dining room table with buffet and hutch, two captain's chairs and two benches, 836-6536 after 5 p.m. Ice cream, assorted flavors, Feb. 2, Room 025, Food Science. Women's fur coat, 3/4-length, polar white muskrat, size 10-12, 836-0197.

**Wanted:** Babysitter for Sundays, near campus, 821-4583. Loving child care by a non-smoker for a happy toddler in my home if possible, Brenda, Ext. 4811.

**For Rent:** Room with light cooking facilities, Ext. 2965 or 821-5502 after 5 p.m. Furnished room available immediately for woman, eight-minute walk to campus, telephone included, \$45 a week, 836-3006. Shared accommodation for responsible adult in large four-bedroom home located on conservation area with ample parking, close to University, call 763-5506 and leave message.

"Personals" is a free service offered by At Guelph for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to At Guelph one week before publication. ○

## Campus Canada

The Royal Bank of Canada will contribute \$250,000 toward a chair in international business at the University of Western Ontario. At the end of five years, the bank will conduct an evaluation and decide on future funding.

Dalhousie University's counselling and psychological services office has received a grant of almost \$250,000 from the Counselling Foundation of Canada to help train

career counsellors. The office will use the funds to set up an internship program to train counsellors for areas such as schools, rehabilitation centres and women's shelters.

The University of Calgary has set up University Technologies International Inc., a wholly owned subsidiary, to conduct contract research, technology/product licensing and sales and spin-off ventures.

(Notes from AUCC) ○





## Inside:

Insert: InfoServ	
An unacceptable gift .....	1
Let's talk trade .....	2
Cluster of micros for Library .....	4

## Cover:

Pork lovers can look forward to a better roast, thanks to research by, left to right, graduate student Tom Irving and Profs. Howard Swatland and Barry Millman. (See story, page 1.)

Owen Roberts, Office of Research







## Teaming up for better meat

by Owen Roberts

At a molecular level, there's little difference between the muscle in a bodybuilder's biceps and the meat in a lean pork roast — they both consist of millions of spiny filaments that baffle scientists with their ability to stretch, separate and interlock.

In some meats, however, the arrangement of these filaments can break down, causing the cells within to exude moisture. This results in an undesirable water loss. University researchers are combining forces to understand muscle contraction and, in the process, find a solution for the problem of "watery" meat.

Prof. Barry Millman of the Department of Physics, Prof. Howard Swatland, jointly of the departments of Animal and Poultry Science and Food Science, and graduate student Tom Irving are using a technique called "X-ray diffraction" to measure the density and arrangement of muscle filaments.

Typically, these filaments are arranged in a regular lattice pattern that can be captured on film when X-rays are passed through thin strips of muscle. This allows researchers to study muscle structures smaller than one-millionth of a millimetre; it is at this minute level that water passes in and out of the spaces in the muscle lattice.

But no one is sure what sparks the water movement or, in the case of livestock, how to accurately identify carcasses that will lose moisture more quickly than others. Researchers

know that the muscle filaments are negatively charged, and because similar charges repel each other, the filaments are kept apart electrostatically. In that way, they naturally maintain their lattice pattern. But under certain conditions, filaments lose some of their charge, and the pattern may break down, altering the spacing and forcing out the water through the lattice. When the muscle is cut, the moisture tries to escape.

In pork in particular, this rapid water loss causes a meat condition called "PSE" — pale, soft and exudative — which hurts the image of affected fresh pork. "Consumers shy away from what appears to be 'watery' meat," says Swatland, a former butcher. And if the meat sits long enough, it eventually dries out much quicker than non-PSE meat would.

Understanding why the lattice patterns break down is the first step in solving the problem, and it relates directly to basic muscle studies that Millman has been involved in for the past 30 years. He, Swatland and Irving believe they can use X-ray diffraction methods to validate simpler electronic carcass assessment techniques.

"We want to give our meat industry a useful method for the quality control of pork," says Swatland. "This will have a positive effect on our export markets."

Millman and Swatland's work is being supported by the Ontario Ministry of Agriculture and Food and the Natural Sciences and Engineering Research Council. □



A series of three advertisements for The Campaign won recognition in a national competition recently. Above, Marilyn Robinson, development officer, Alumni Affairs and Development, Ginty Jocius, president of Ginty Jocius & associates, and President Burt Matthews hold a first-place Canadian Agri-Marketing Association plaque. The campaign

ads appeared in *Breeder and Feeder* magazine (Ontario Cattlemen's Association), *Hog Market Place Quarterly* (Ontario Hog Producers) and the *Ontario Milk Producer Magazine*. Ginty Jocius & associates won three other prizes out of 11 entries in other categories.

Photo by John Marjorossy, Photographic Services.

## Student affairs vice-president sought

The University invites applications and nominations for the position of associate vice-president, student affairs.

Reporting to the vice-president, academic, the associate vice-president, student affairs, shares major responsibility with the associate vice-president, academic, for providing an integrated and balanced approach to the University's educational activities.

Five divisions report directly to this position — Athletics, the Counselling and Student Resource Centre, Medical Services, Residences and the Student Environment Study Group.

Applicants must have a proven record of

achievement in a senior administrative position in student services or equivalent experience in an academic setting. The successful candidate must possess exemplary interpersonal and management skills and have demonstrated superior ability to provide leadership at senior levels.

Nominations or applications, including a resume and the names of three referees, should be submitted by March 1 to Prof. Jack MacDonald, vice-president, academic, who is chair of the selection committee. The appointment is expected to begin July 1. □

## Letters to the Editor

### Tobacco money unacceptable

In our opinion, the University is wrong to accept the sponsorship of Imperial Tobacco for any University facility. It is especially important that the University not be burdened by the perpetual embarrassment of laboratories for environmental or health-related research with this name. The University should return the Imperial Tobacco "gift" and carefully avoid any action that could in any way be interpreted as showing the slightest approval of this company and its products.

The tobacco industry continues to struggle to perpetuate the smoking habit and to prevent full knowledge of the consequences of use of its products from reaching potential consumers. This stance is antithetical to the purposes of the University, which are to find and disseminate knowledge and promote the public good. We can not find any reason to justify our acceptance of this industry whose products cause the death of about 100 Canadians each day.

It is a well-known strategy of tobacco advertising to divert public attention from the devastating effects of tobacco on human health by implying a relationship of tobacco to health promotion. The industry has traditionally done this through sponsorship of sport, pictorial advertisements depicting youth and physical activity, etc. The funding

of research in hybridomas (potential tools against cancer) and environmental research would be singularly unsuitable postures of this strategy. For the University to make this possible would be to sell its honor for base gain.

We have written President Burt Matthews, asking that the University not accept sponsorship from Imperial Tobacco or any other tobacco company. We urge others to do the same so that the reputation of our University will not be stained by such demeaning attempts to buy legitimacy.

Imperial Tobacco can best promote environmental quality and battle cancer by devoting its funds to an urgent campaign to fully inform Canadians of the diseases induced by smoking and by adding its efforts to the campaign to eliminate smoking and the pain and premature deaths it brings.

Prof. Stan Blecher,  
Human Biology.

Prof. Usher Posluszny,  
Botany.

Prof. Hugh Whiteley,  
Prof. Sam Zelin,  
School of Engineering.

Prof. Vic Matthews,  
Languages and Literatures.

### Trade deal 'old colonialism'

Just so the other side knows we are here, I would like to take issue with Larry Martin's article about the new hope in the Mulroney trade deal (*At Guelph*, Jan. 27, 1988).

Increased integration with the United States implies still greater control of Canada by Americans. Going colonial is what colonials do when their only economic policy is to shake the tree and wait and see.

I agree that the status quo is not an option. The real option is to elect a new government with made-in-Canada social, economic and political priorities.

Someone should organize a serious debate on these issues.

Prof. Alex Michalos,  
Philosophy.

## The Year of Agroecology

by Owen Roberts

Ontario Premier David Peterson's 15-year goal of reducing pesticide use in the province by 50 per cent has campus researchers poised for a new emphasis in studies on alternative agriculture and "agroecology."

The premier's decree, issued on the campaign trail last summer, means researchers will have to act swiftly to provide food producers with the information they'll need to accommodate this plan, says OAC Dean Freeman McEwen.

"Meeting the premier's aspirations for halving the current level of pesticides in use on Ontario farmland will be a major challenge to both researchers and farmers," says McEwen. "Given the important role these groups have in keeping our environment healthy, I'm certain that they'll rise to the occasion... but the effort has to start immediately."

McEwen says decreased pesticide application could have a great impact on agriculture, especially traditional farming practices and crops. He says studies are needed on the anticipated effect on production and tillage methods and proliferation of weeds, plant diseases and harmful insects.

And, he says, more information is needed in the area of "agroecology" — a discipline combining the interests of agriculture and the environment — such as alternative methods of pest control and the potential for farmers to grow new crops that are less dependent on chemical assistance.

"There are some very positive aspects that go along with this," says McEwen. "Forcing the

industry to examine new crops, for example, could spark the development of domestically produced farm products to fill market niches now being served by imports. Furthermore, given the worldwide unsold stores of traditional crops like corn and wheat, cutting back on the production of those commodities has some merit."

McEwen says new funding sources must be made available if significant pesticide reduction is to become a reality. "Various studies have been done on pesticide alternatives," he says, "but it's still a fairly new field of research. There are many areas that need exploration."

OAC welcomes the opportunity to get involved in this new direction, he says. "The premier's declaration opens the door for the college — and Canada — to be a global leader in pesticide reduction, which is a burning issue everywhere. We've traditionally been viewed nationally and internationally as having a leadership role in the future of agriculture, and look forward to meeting this new challenge." □

### InfoServ

Inserted in this issue of *At Guelph* for internal readers only is "InfoServ" — a guide to the services provided by the Library. The guide was written and produced by Library staff.

External readers who wish a copy should contact Bob Logan, 519-824-4120, Ext. 3073. □





Prof. Linda Wood, Psychology, left, on behalf of the Gerontology Research Centre, presents the Gerontology Research Council of Ontario graduate student awards to, left to right: Nancy Knudsen of Vancouver, FACS; Jane Delamere-

Sanders of Peterborough, FACS; Anne Lipish of Guelph, FACS; and Brenda Fraser of Guelph, University School of Rural Planning and Development. Herb Ranscher, Photographic Services.

## Ottawa's deputy chief trade negotiator on campus

Representatives of labor, business, agriculture, the arts, the University and the general public will have a chance to buttonhole Gordon Ritchie, Simon Reisman's deputy chief trade negotiator, on campus Feb. 17.

Ritchie will speak, then answer questions from a panel and the audience starting at 7:30 p.m. in Room 103 of the University Centre. The subject of this free public forum is "The Canada-U.S. Trade Agreement — What Does It Mean for Us?"

There has been much controversy in the media about the advantages and disadvantages of the agreement and the actual content of the document, says Prof. Bram Cadsby, Economics, a forum organizer. For many, it is unclear how the various sectors will be affected, he says. "Ritchie is not a politician, so we won't just hear the same old political speech."

Cadsby will be a member of the question panel along with Terry Daynard, executive vice-president of the Ontario Corn Producers; economics student Johanne Doucet; Louise Gilliam, president of the Guelph and District Labor Council; Anne Godfrey, board member on the Guelph Arts Council; and Ron Moses,

president of the Guelph Chamber of Commerce. Prof. Mark Waldron, director of the School of Part-Time Studies and Continuing Education, will moderate.

Ritchie was appointed in 1986, and has particular responsibility for the preparation, negotiation and implementation of the Canada-U.S. trade agreement.

The forum is sponsored by the Guelph Chamber of Commerce, the Division of Continuing Education, the Department of Economics and the Economics Club. ○

## Obituary

Cyril Stevens

Cyril Stevens, a custodian in Housekeeping, died Jan. 24. He had been an employee of the University since 1973.

He is survived by his wife, Ursula, a clerk in Medical Services, and four step-children. ○

## Briefly

### Teaching conference

The eighth annual conference on Teaching and Learning in Higher Education takes place June 18 to 21 at McMaster University. The conference gives faculty members, teaching assistants, educational researchers and developers, study skills counsellors and administrators an opportunity to learn how to improve teaching and learning in post-secondary education. Proposals for sessions are invited, especially in the areas of teaching critical thinking, teaching communication skills, learning in higher education, evaluating teaching, using computers in teaching and trying fresh approaches to lecturing. Deadline for proposals is Feb. 29. For more details, contact the STLHE, c/o Instructional Development Centre, McMaster University, Hamilton L8S 4K1, 416-525-9140, Ext. 4540. Registration fee for the conference is \$115 before May 31.

### An economic forecast

The International Association for Students of Economics and Commerce (AIESEC) is sponsoring a luncheon and speaker Feb. 9 at noon at the Cullen Club. Economic forecaster Ted Carmichael, vice-president of the C.D. Howe Institute, will discuss "Towards a Global Economy: The Challenge of Co-operation." Tickets are \$10 general, \$7 for students, and are available at the AIESEC office, Room 242, University Centre, Ext. 8196.

### Valentine balloons

Valentine balloons delivered by Valentine clowns anywhere on campus can be purchased Feb. 8, 9 and 10 in the University Centre courtyard. Delivery dates are Feb. 11 and 12. Prices range from \$1.50 for a regular balloon to \$12 for a dozen. The event is sponsored by the University Catholic Community. For more information, call Guy Seguin at 837-3026.

### Luncheon special

The Peter Clark Hall gold card luncheon special gives you one free meal when you buy 10 meals worth \$3.80 or more. Free meal includes entree, salad, bread and beverage. Purchase gold cards from the cashier in PCH.

### Noon-hour concert

Violinist Barry Shiffman and pianist Bernadene Blaha perform Feb. 4 at the Department of Music's Thursday noon-hour concert. Shiffman was grand winner of the 1987 Canadian Music Competition, and has appeared with orchestras in Washington, Lisbon and across Canada. Blaha has given concerts throughout Canada, the United States, Europe, Mexico, Bermuda and Jamaica. She has appeared as soloist with many major orchestras and as a regular guest on CBC radio. Shiffman and Blaha will perform at 12:10 and 1:10 p.m. in Room 107, MacKinnon building.

### Big Brothers

The Big Brothers' Association of Guelph and Wellington County begins its 13th annual Bowl for Millions campaign Feb. 6. A series of community challenges, including the University challenge Feb. 19, is planned throughout February. For more information, call Gary Nadalin at Ext. 3503.

### Special wins awards

A CFPL-TV special co-sponsored by the University last winter has received awards from two organizations. "Season to Season: A Farmer's Story" has won the Canadian Broadcasters' gold award and the Ontario Federation of Agriculture's media award. The University's ads for the program featured OAC Dean Freeman McEwen discussing the contributions Guelph has made to Canadian agriculture.

### Keeping in contact

The Office for Educational Practice is sponsoring a workshop entitled "Keeping in Contact: Using T-CoSy in a Course," Feb. 4 at noon in Room 211, Blackwood Hall. Prof. Keith Ronald, director of The Arboretum, will describe how he is using the conferencing system; Elizabeth Black, OEP, will discuss student orientation to computer conferencing. For more information, call Meif Eirick at Ext. 3522.

### Where are you?

Mail Services has received a letter addressed to David and Cindy, University of Guelph. It's from Pat McCann, Richmond Hill, County Cork, Ireland. If this is your letter, call Bob McCuen at Ext. 2264.

### Bake sale

The University of Guelph Choir will hold its annual bake sale Feb. 4 from 8:30 a.m. to 12:30 p.m. in the University Centre courtyard.

### Pleasingly pubbish

The Gryphon Arms presents "Pleasingly Pubbish," a salute to jolly old England Feb. 5 at the Hafa Restaurant, Level 0, Hotel and Food building. Call Ext. 8116 for reservations, or try the buffet service.

### Meetings for the mind

Space is still available in a number of Continuing Education non-credit courses beginning this week. "Philosophy of Religion" runs for eight Wednesdays beginning Feb. 3; "Entrepreneurship: Planning for Business Success" runs for six Wednesdays beginning Feb. 3; "Cartooning" runs for eight Mondays beginning Feb. 8; "Marketing and Media Buying" runs for six Tuesdays beginning Feb. 9; "The Wonder of Birds" runs for five Tuesdays beginning Feb. 9; "Investment Alternatives" runs for eight Wednesdays beginning Feb. 10; "Free Trade: Yes or No?" runs for four Thursdays beginning Feb. 11; and "Wine Appreciation II" runs for 11 Tuesdays beginning Feb. 9. For more information or to register, call Ext. 3956/7.

### Pet study needs volunteers

Researchers in the Department of Psychology are studying children and their pets. Eleven- to 12-year-old children with one dog are needed to participate in the study, which involves talking about their relationship with their dog. For more information, call Susan Rosenstein at Ext. 3591, Ext. 8319 or 763-0273, or Dr. Linda Wood at Ext. 3977.

### Margaret Laurence conference

Trent University will host a three-day tribute to Margaret Laurence March 10 to 12. Scheduled participants include Pierre Berton, Alice Munro, Timothy Findley, W.O. Mitchell, Roo Borson, Robert Kroetsch, Miriam Waddington, P.K. Page, Adele Wiseman, Hugh MacLennan and Sylvia Fraser. *Saturday Night* fiction editor Robert Weaver, Laurence critic Clara Thomas and writer-broadcaster Peter Gzowski will act as moderators. The tribute will feature lectures, receptions and readings by the participants. Tickets are required only for a gala fund-raising dinner March 11 to raise money for the Margaret Laurence writer-in-residence fellowship at Trent. Berton, chair of the Writers' Union of Canada, will be the guest speaker. Tickets are \$30, and are available from the Margaret Laurence Tribute Committee at Trent University, Peterborough K9J 7B8.

### Frolie at The Arboretum

The Arboretum hosts a February Frolie Feb. 7. Guided walks leave from The Arboretum Nature Centre at 1 and 3:30 p.m. At 2:30 p.m., enjoy the music of Norbert Kraft and Bonnie Silver, a guitar and harpsichord duo performing at The Arboretum's Centennial Centre. Admission is free.

### Continuing Education report

The annual report of the University School of Part-Time Studies and Continuing Education is now available. Copies can be obtained from Laura Peters, Ext. 3414.

### Unravelling the ISMS II

As a follow-up to last year's series at the Macdonald Stewart Art Centre, lecturer Arthur Handy will continue the examination and dissection of such modern art phenomena as funk, pop and formalism. Beginning Feb. 4 at 2 p.m., the series will run for four Thursdays. The first three sessions will take place in the art centre's lecture room. The final session is a field trip to the Albright Knox Gallery in Buffalo. Handy is artist-in-residence at the Burlington Cultural Centre. Cost for the series is \$35. For more information, call 837-0010.

### London House available

Guelph London House, a student residence owned and operated by the University, is available from June 18 to Sept. 21 for travellers planning a trip to London, England. The house is located in the NW1 district of London at the edge of Regent's Park, with good access to all parts of the city by bus and tube. Accommodation consists of two fully furnished apartments, each suitable for four persons, at \$18.50 per person per day, two double rooms each with two single beds at \$20 per person per day and two single rooms at \$22.50 per person per day. Minimum rental period is five nights for the apartments and seven nights for the rooms. For more details and space availability, call John Wills, property manager, Ext. 2734.

### Gerontology seminars

The Gerontology Research Centre winter seminar series begins Feb. 11 with Barb Gfeller of Brandon University discussing "Adaptation and Well-Being of Very Old Adults After Hospitalization." The seminar begins at 12:10 p.m. in Room 334 of the University Centre.

### Mathematicians meet

The Department of Mathematics and Statistics is presenting the 81st annual Ontario Mathematics Meeting Feb. 6 from 9 a.m. to 4:30 p.m. Lectures and registration are in Room 117, MacKinnon building. For more information, call Prof. Pat Fischer at Ext. 2607 or Prof. Bill Langford at Ext. 3038.

### Surplus items for sale

The Surplus Sales Department, Blackwood Hall, has the following items available for departmental purchase only: one microfiche viewer, SD#219; seven DC6000A data cartridges, SD#274; 10 tables, 32 by 66 inches, SD#345; 13 Olympus binocular microscopes, SD#420; two green slate blackboards, 79 1/2 by 43 inches, SD#432; one Lanpar Digital Decwriter III, s/n PN30898, SD#436; one oscilloscope, SD#449; one Oume printer, SD#454; and one stereo binocular microscope, SD#47. For more information and viewing, call Ext. 8139.

### At Guelph

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At Guelph is guided by an editorial policy approved by the president of the University. A copy is available upon request.

Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items, speeches, faculty and staff activities, and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified.

Stories may be reprinted with acknowledgment of source.

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# Coming events

## WEDNESDAY, Feb. 3

**Worship** - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.  
**Biochemistry Seminar** - "Plant-Plant Virus Interactions," Annette Nassuth, 12:10 p.m., MacNaughton 222.

**Botany Seminar** - "Systematics and Phyletic Relations in *Chenopodium* of Western North America," Terrence Walters, 3 p.m., Botany/Genetics/Zoology 117.

**Basketball** - Vs. Waterloo, women's, 6 p.m.; men's, 8 p.m., Athletics Centre.

**Continuing Education** - "Entrepreneurship: Planning for Business Success," 7 p.m., six weeks; "Philosophy of Religion," 7:30 p.m., eight weeks, register at Ext. 3956/7.

## THURSDAY, Feb. 4

**Bake Sale** - University of Guelph Choir, 8:30 a.m. to 12:30 p.m., UC courtyard.

**Instructional Development** - "Keeping in Contact Using T-CoSy in a Course," noon, Blackwood Hall 211.

**Pathology Seminar** - "Case Report: An Outbreak of Budgerigar Fledgling Disease in an Aviary," J. Gough, 11:10 a.m. Pathology 220.

**Worship** - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.

**Concert** - Barry Schiffman, violin, and Bernadene Blaha, piano, 12:10 and 1:10 p.m., MacKinnon 107.

**Hockey** - Vs. Toronto, women's, 7:15 p.m., Athletics Centre; Vs. Wilfrid Laurier, men's, 7:30 p.m., Memorial Gardens.

**Chappel Lecture** - "Is Cancer Caused by Cancer Genes, or the Folly of Reductionism?" Harry Rubin, 8 p.m., Macdonald Hall 149.

## FRIDAY, Feb. 5

**Worship** - Roman Catholic Mass, 8:10 a.m., Chapel; UC Level 5; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.

**Convocation** - PhD, D.V.Sc., MA, M.Sc., M.L.A., DVM, M.Ag., BA and graduate diploma, 10 a.m.; B.A.Sc., B.Comm., B.Sc., B.Sc.(H.K.), B.Sc.(Agr.), B.Sc.(Eng.) and associate diploma in agriculture, 2 p.m., War Memorial Hall.  
**Current Issues in Agriculture** - "Acid Rain," Gerry Hofstra, 3:10 p.m., Crop Science 121.

## SATURDAY, Feb. 6

**Conference** - Ontario Mathematics Meeting, 9 a.m. to 4:30 p.m., MacKinnon 117.

**Worship** - Muslim Students' Association, Lectures on Islam, 6 p.m., Chapel, UC Level 5.

**Basketball** - Vs. McMaster, women's, 6 p.m.; men's, 8 p.m., Athletics Centre.  
**Dinner Theatre** - Theatre in the Trees, Key for Two, 6 p.m., The Arboretum Centre, \$25.50.

## SUNDAY, Feb. 7

**Children's Concert** - Mr. Dressup, 1 and 3 p.m., War Memorial Hall, \$6.

**Arboretum Day** - February Frolic, guided walks

at 1 and 3:30 p.m., leaving from the Nature Centre; concert, Norbert Kraft, guitar, and Bonnie Silver, harpsichord, 2:30 p.m., the Centennial Centre.

**International Cinema** - "And the Ship Sails On," (Italy), 8 p.m., MacNaughton 105, \$2.

## MONDAY, Feb. 8

**Our World** - "Human Rights in Singapore and Malaysia - An Amnesty International Perspective," 12:10 p.m., UC 441.

**Commtech '88** - "New Product Development and Commercial Exploitation," 4 p.m., UC 103.  
**Concert/Lecture** - Dr. Peggie Sampson and the Hogarth Consort of Vocals, 4:15 p.m., MacKinnon 107.

**Worship** - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

**Continuing Education** - "Cartooning," 7 p.m., eight weeks, register at 3956/7.

## TUESDAY, Feb. 9

**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.

**Land Resource Science Seminar** - "The Guelph Permeameter and Infiltrometer," David Elrick, 2:10 p.m., Land Resource Science 124.

**Continuing Education** - "The Wonder of Birds," 7 p.m., five weeks; "Wine Appreciation II," 7 p.m., 11 weeks; "Marketing and Media Buying," 7 p.m., six weeks, register at 3956/7.

**Hockey** - Vs. Waterloo, men's, 7:30 p.m., Memorial Gardens.

**Women and Science Panel** - "Academic Snakes and Ladders," 7:30 p.m., Facult. Club, UC Level 5, \$2.50.

## WEDNESDAY, Feb. 10

**Worship** - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.

**Biochemistry Seminar** - "Malondialdehyde Derivatives in Urine," Harold Draper, 12:10 p.m., MacNaughton 222.

**Botany Seminar** - "Biosynthesis and Photosynthetic Allocation in Microalgae," Ralph Smith, 3 p.m., Botany/Genetics/Zoology 117.

**Continuing Education** - "Investment Alternatives," 7 p.m., eight weeks, register at Ext. 3956/7.

## THURSDAY, Feb. 11

**Pathology Seminar** - "The Role of *Mycoplasma* spp. in Equine Infertility," V. Bermudez, 11:10 a.m. Pathology 220.

**Worship** - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.

**Concert** - Donna Klimoska, mezzo-soprano, and Laurent Philippe, piano, 12:10 and 1:10 p.m., MacKinnon 107.

**Volleyball** - Vs. Waterloo, women's, 6 p.m.; men's, 8 p.m., Athletics Centre.

**Hockey** - Vs. York, women's, 7:15 p.m., Athletics Centre.

**Food Security Research Seminar** - "Food as Economic Statecraft: Canadian and American Food Aid/Trade with African Countries," Robert

Henderson, 2 p.m., Animal Science 141.

**Continuing Education** - "Free Trade: Yes or No?" 7 p.m., four weeks, register at Ext. 3956/7.  
**Concert** - University of Guelph Big Band, 9 p.m., UC 103, \$1.

## FRIDAY, Feb. 12

**Schedule of Dates** - Last day for submission of student petitions, second meeting.

**Worship** - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.

## SATURDAY, Feb. 13

**Art Exhibit** - "Snow, Weiner, Nannucci," Macdonald Stewart Art Centre.

**Worship** - Muslim Students' Association Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
**Dinner Theatre** - Theatre in the Trees, Key for Two, 6 p.m., The Arboretum Centre, \$25.50.

## SUNDAY, Feb. 14

**Worship** - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 10:30 a.m., UC 103.

**Arboretum** - Sunday Afternoon Walk, Voyage Beneath the Ice, 2 p.m., Arboretum Nature Centre.

**Concert** - Guelph Youth Orchestra, 3 p.m., OAC Centennial Centre, The Arboretum.

## MONDAY, Feb. 15

**Schedule of Dates** - Mid-Semester Break, no classes scheduled.

**Commtech '88** - "Cashing in Your Chips," 5 p.m., UC 441.

**Worship** - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, Feb. 16

**Schedule of Dates** - Mid-Semester Break, no classes scheduled.

**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.

**Continuing Education** - "So You Want to Go to University/Study Skills, 7:30 p.m., four weeks, register at Ext. 3956/7.

**Hockey** - Vs. Toronto, men's, 7:30 p.m., Memorial Gardens.

**Senate** - Meeting, 8 p.m., MacNaughton 113.

## WEDNESDAY, Feb. 17

**CUSO** - Information Table, 10:30 a.m. to 7:30 p.m., UC courtyard; Information Meeting, 7:30 p.m., UC 103.

**Concert** - Dance Makers, noon, UC courtyard.

**Worship** - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.

**Biochemistry Seminar** - "Microtubule Assembly Dynamics and the Cell," Bob Keates, 12:10 p.m., MacNaughton 222.

**Botany Seminar** - "Regulation of Carbonic Anhydrase Expression," John Coleman, 3 p.m., Botany/Genetics/Zoology 117.

**Theatre** - *The Importance of Being Earnest*, 8 p.m., War Memorial Hall, \$8.50 to \$11.50.

## Research money available to graduate students

The University School of Rural Planning and Development (USRP&D) has \$45,000 available for graduate student research.

The money will be divided among four to six recipients to conduct up to one year's research in international rural development in a Third World country, says Prof. David Douglas, director of USRP&D. Proposals must be submitted by March 21.

The award is open to any graduate student registered at U of G who is doing work that fits within the area of international rural planning or development.

There are no application forms for the award. Applicants will be judged on the quality of their proposals by an interdisciplinary committee that will look for a focus for the work that is oriented to the needs of the Third World, a solid theoretical base to the proposal, a conceptual and analytical framework suited to the problem identified and a reasonable command of the methodologies that might be applied to the research problem.

The proposal must indicate country and region where the research is to be undertaken, and it should contain a budget, timetable, proposed supervisory committee and the institutional arrangements in the country where the work is to be done.

For more information, call Douglas at Ext. 3154. O

## Dwivedi to receive honorary degree

Prof. O.P. Dwivedi, Political Studies, is to receive an honorary doctor of laws degree and address graduates at the University of Lethbridge's May 28 convocation. The honor recognizes his contributions in the area of public service.

Dwivedi's career at Guelph spans more than 20 years. He has been chair of Political Studies since 1979 and he was acting dean of the College of Social Science in 1984. He has served as consultant to the Public Service Commission of Canada, the Ministry of State for Urban Affairs, Department of Environment, International Social Science Council of UNESCO, UNESCO's Man and Biosphere Program and the International Development Research Centre. As a senior adviser for the World Health Organization and a consultant for the Canadian International Development Agency, he has served the governments of India and Papua New Guinea.

He is founding member of the human environment committee of the Social Science Federation of Canada, immediate past president of the Canadian Political Sciences Association, chair of the study group on technology and development for the International Political Science Association, and project director for the International Association of Schools and Institutes of Administration.

He was appointed to the Environmental Assessment Board for 1986/89, and is president of the Society for Environment, Development, Study and Research in Allahabad, India.

The Lethbridge citation says that "through his extensive travels, publications and dedication to public service, Dwivedi has proved himself an excellent ambassador of Canadian universities, held in high esteem by his colleagues in Canada and abroad." O

## First student job fair held

Planting trees, whitewashing fences and serving tables never looked so good.

With promises of lucrative salaries and lots of summer fun, 38 companies sent representatives to campus Jan. 22 to woo Guelph students to work for them this summer.

The University's first summer job fair, hosted by the Counselling and Student Resource Centre, gave hundreds of students a head start on their job hunt. Although many students have trouble finding seasonal work, 38 booths proved that well-paying, rewarding summer jobs do exist.

Cara Operations had an eye out for full and part-time assistant managers for Harvey's and Swiss Chalet restaurants all across the area.

Stouffville Co-operative Association, a farm supply co-op, likes Guelph students because they "seem to have the aptitude and experience we require," said Brian Reynolds, general manager.

And although Travel Cuts can't offer "buckets of money," said assistant director Margot Haldenby, it does give 1,800 Canadian students the opportunity to work abroad in six different countries on a working holiday visa.

The hospitality industry was well-represented with booths from Ontario Place, Canada's Wonderland, Toronto Tours, Sunshine Beach Water Park, Cleveland House and Bayview-Wildwood resorts.

Other employers in tree planting, sprinkler systems, painting franchises and agriculture offered plenty of opportunities for hearty outdoor-lovers to soak up some sun while making some money.

Sandra Valeriot, a placement assistant with career services, CSRC, said the job fair was a success. "The employers were really pleased with the turnout," she said, adding that the University will likely host another fair next year. O

## Campus Canada

Laval University has adopted a policy on French-language proficiency. By 1992, French proficiency will be an admission requirement for all programs. Beginning this fall, all new students will be required to pass a French test before obtaining their degree.

The University of Saskatchewan has set up a reproductive biology research unit to conduct basic and clinical research related to the reproductive system and fertility problems. The unit has received a \$500,000 start-up grant from the Saskatchewan Health Research Board.

A team of University of New Brunswick engineering professors will receive a \$1.1-million grant over the next three years from the Natural Sciences and Engineering Research Council. The professors are examining how satellites can be used commercially for surveying, navigation, agriculture and forestry. The team is looking to industry to raise an additional \$1 million for the research.

The University of British Columbia's faculty of forestry has set up an industrial research chair

focusing on wood preservation methods. NSERC is contributing \$97,000 towards the chair. Seventeen businesses — many of them small-scale operations — in Canada, the United States and Britain are providing another \$50,000.

(Notes from AUCC)

## Positions elsewhere

Notice of the following vacancy outside the University has been received by the Office of the President:

The University of Victoria seeks applicants for the position of university librarian. Send applications, with a curriculum vitae and the names of three referees, by Feb. 15 to Dr. F. Murray Fraser, Vice-President, Academic, University of Victoria, P.O. Box 1700, Victoria, B.C. V8W 2Y2. O



# Microcomputers installed in Library

Computing Services recently completed the installation of a 48-unit microcomputer cluster on the main floor of the University Library. The cluster is intended to improve accessibility to computing facilities for the entire University community, but particularly for undergraduate students, says Ted Dodds, assistant director, CS.

"As far as we know," says Dodds, "Guelph is the first university in Canada to install a microcomputer cluster of this nature in a main library."

Considered the first pilot project of the University's proposal for a computerized educational network (EDNET), the cluster will complement already existing microcomputer pools operating in many colleges, he says.

To provide maximum flexibility, the facility includes a mixture of different machines. Half of the units are connected to the ROLM network, with plans for the remaining units to be connected in the future.

The 24 stand-alone units consist of 180 Zenith (IBM-compatible) microcomputers, equipped with dual 5 1/4-inch floppy drives, plus an additional six Zenith machines featuring both 5 1/4- and 3 1/2-inch drives to enable transferring files from one storage medium to the other.

In addition, there are 12 IBM PS/2 Model 25 microcomputers, with a single 3 1/2-inch drive and a ROLM connection. Nine Volker-Craig terminals and three VITAL terminals round out the equipment.

Some of the longer-range plans for the microcomputer cluster include the possibility of printing facilities, connecting some of the

machines together in a local area network, and increasing the number of available software products, says Dodds.

A CS consultant is on duty in the Library

to answer questions Monday through Thursday from 8:30 a.m. to 9 p.m., Friday from 8:30 a.m. to 5 p.m., and Saturday and Sunday from noon to 4:30 p.m. O

## Focus

### Ontarion editor-in-chief heads back to the basics

The University student newspaper *The Ontarion* opened its doors to a new editor-in-chief at the beginning of this term — Daniel Melanson, a third-year English major from Brampton.

Melanson first became involved at the paper as a volunteer in the news department two years ago. He was full-time news editor last year, has been a member of the board of directors for two years and has worked closely with the last two editors-in-chief. "But I never thought for a second that I'd be editor-in-chief, because I'd given that up as a goal," he says.

The decision to accept the position was a difficult one for Melanson because he still needs two more credits for his degree. "But *The Ontarion* needed some direction and wasn't getting the kind of commitment it deserved," he says.

Melanson wants to take the paper "back to basics" and teach his staff to communicate well and concentrate on good journalism. "Right now, the paper has to reaffirm sound principles of journalism — good stories, well-written stories and good



Daniel Melanson.

Marla Stewart, PRI.

layout."

He also wants to increase the amount of student fees paid to *The Ontarion* by about \$1.20 per capital costs.

The student newspaper has a circulation of 11,500, a paid staff of about 15 and a volunteer staff of about 130. O

## Personals

**For Sale:** Rectangular teak dining table in excellent condition, 35" x 54", expanding to 101", Ext. 3456. Black velvet jacket, shoe cabinet, overnight bag, pole lamp, electric can opener, #22-5106. Jellin competition tennis racket with press and cover, two full-face snowmobile helmets and child's helmet, 763-5418 after 6 p.m. 1977 Volare, certified, Ext. 8593 or 823-2469. 1979 Monte Carlo, certified, #21-7574. Five-bedroom house, 1,600 square feet, 1 1/2 baths, large kitchen with lots of cupboards, #24-4702. Bateman, Parker, Calle Prints, #24-5865, after 4:30 p.m.

**Available:** Word processing, typing, resumes, data entry on a PC, #24-2426.

**For Rent:** Furnished room with light cooking facilities for female student, Ext. 2965 or #21-5502 after 5 p.m. Room in professional home, \$250 a month, Gary, 763-5418 after 6 p.m. New three-bedroom raised bungalow, single car garage, close to University, \$875 a month plus utilities, George, 763-8093 or #36-7050. Main floor duplex, two bedrooms, Exhibition Park area, available April 1, references required, \$800 a month, includes heat and garage, Jeff, Ext. #132.

## Job opportunities

As of *At Guelph* deadline Jan. 29, 1988, the following opportunities were available:

**Alma Mater Fund Assistant, Alumni Affairs and Development.** Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

*The following positions were available to on-campus employees only:*

**Technician, Molecular Biology and Genetics.** Salary range: \$353.20 minimum; \$408.07 job rate (level 5); \$506.70 maximum.

**Foreman/Woman, Structural Shop — Physical Resources.** Salary range: \$30,408

minimum; \$38,010 midpoint; \$45,612 maximum. Normal hiring range: \$30,408 to \$35,729.

**Accounts Payable Clerk, Accounts Payable Department.** Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

**Porter, Residences (south area).** Job rate: \$10.52 per hour; probation rate: \$.20 per hour lower than job rate.

**Porter, Residences (south and east area).** Job rate: \$10.52 per hour; probation rate: \$.20 per hour lower than job rate.





The country's first master of agriculture graduates have something to cheer about besides graduation — they all have jobs. Seated, left to right: Linda Frew, Cathie Lowry, Sue Fowle and Kathy Merriman. Standing, left to right: Ron Gulka, Scott Gray, David Stauffer, Ralf Dietert, Jim Sanderson, Ian Cowbrough and Pierre-Yves Gasser. (See story, page 1.)

Herb Rauscher, Photographic Services

## Inside:

CUP grapples with heavy agenda ..... 2  
J.M. Schneider — a good neighbor ..... 3  
PRI enters community relations ..... 3

Bakker defends presence in Indonesia .... 4  
TAL scores with students & funding ..... 8







## First M.Ag. degrees awarded

Canada's first master of agriculture (M.Ag.) degrees were awarded by the University during winter convocation ceremonies Feb. 5.

The Department of Agricultural Economics and Business instituted the unique program two years ago to answer the industry's need for prospective management employees with a greater appreciation for business problems and issues in the agriculture and food system, says department chair Larry Martin.

The degree is like a master of business administration degree, except that it is totally oriented towards agriculture, designed to integrate intensive management skills with practical technical expertise, Martin says.

The program has been applauded by other educational institutions, and by the agribusiness industry, which has employed all the inaugural class.

The program's first graduates are: Ian Cowbrough of Guelph, a management trainee in agricultural lending with the Royal Bank; Ralf Dietert of Peterborough, a territory manager with Shur-Gain; Sue Fowle of Thornhill, customer service representative with Ball-Superior Ltd., Mississauga; Linda Frew of Mount Forest, marketing analyst with Tend-R-Fresh Poultry Products Co., Guelph; Pierre-Yves Gasser of Ste. Foy, Quebec, soil and water conservation, OMAF, Plantagenet; Scott Gray of Port Hope, manager, Locust Cottage Farms; Ron Gulka of London, management development, agriculture, Royal Bank; Cathie Lowry of Almonte, teaching associate, Department of Agricultural Economics and Business; Kathy Merriman of Aurora, quality control manager, Banner Gelatin Products (Canada) Ltd., Olds, Alta.; Jim Sanderson of Burlington, partner and comptroller, Golden Horseshoe Beverages, Burlington; and David Stauffer of Lenzburg, Switzerland, animal health products-marketing manager, CIBA-GEIGY in Switzerland.

Friday's snowstorm didn't stop family and friends from packing War Memorial Hall to celebrate the achievements of the University's newest alumni.

Some 544 graduates joined the ranks of Guelph's 44,000 alumni around the world, and the names of Dr. Harry Rubin of the University of California, Berkeley, and Dr. Michael Smith of the University of British Columbia were added to the University's roll of distinguished honorary graduates.

Rubin, a noted medical scientist in cancer research, delivered a personal message to



Dr. Michael Smith signs the register, accompanied by registrar Arnold Holmes.



Dr. Harry Rubin, hooded by University secretary Barbara Abercrombie, is congratulated by Chancellor William Stewart.



Kay MacLeod.



Joan Barham.

the graduating class. The evening before he had delivered a scientific lecture on popular theories of cancer-causing genes at the inaugural address in the Chappel Lecture in Biomedical Sciences.

"Some of you will have a torturous and rocky road before you," said Rubin, "but the rockiest parts will not be the roadblocks that others put before you, but the illusions you will have about yourself. Each one of you will find your own way. No one can tell you how. If I can do it, so can you."

Smith spoke on what society can do for science and technology and what the graduates, as scientists, can do for society. He said there is a dichotomy between science and society that manifests itself in two forms — a lack of awareness of what

science is about and how it functions, and a fear of the problems that science might cause for society and for the planet.

For science to have the maximum benefits, it is important for society to understand how science works, he said. It is essential that Canada create an environment that attracts the best scientists and then allows them to go ahead and make the "creative mistakes" that great discoveries are made from, he said.

"You, as scientists . . . should work hard. You should be honest, particularly . . . about what you don't know. Don't be responsible, because of haste, for establishing a new industry that pollutes our environment."

Among those receiving a degree Friday

morning was Kay MacLeod, executive secretary to Vice-President, Administration, Charles Ferguson. She returned to her University Centre office after the ceremony to red roses, "Happy Graduation" balloons and the cheers of fellow staff members. MacLeod received an honors bachelor of arts degree in Spanish, with distinction. She earned the degree after 10 years of part-time study.

At the afternoon ceremony, the audience applauded as FACS Dean Richard Barham announced his wife, Joan, on to the platform to receive a bachelor of applied science degree with distinction. The family studies program graduate also received the R.A. Stewart Scholarship Convocation Award. O

Herb Raucher, Photographic Services.

## Study French on the Riviera

Canadian students dream of studying French on the French Riviera, and for a handful of U of G students that dream is coming true.

For the past two years, Guelph, along with the University of Western Ontario, the University of Windsor and Wilfrid Laurier University, has offered students an opportunity to pursue their studies at the University of Nice in France.

The year-long program is open to a total of 40 students from the Canadian schools and has operated since the 1986/87 school year.

Many Canadian universities have third-year programs abroad with special arrangements with French universities, says Prof. Dana Paramskas, director of the French Studies section, Languages and Literatures. But in some cases, Canadian students are sent to a separate institute in which they are segregated from French students.

The advantage of the Nice program is that although two of the students' five courses are taken with the Canadian co-ordinator and their Canadian colleagues, they may choose their three other courses from the faculties of arts and social science at the Nice university itself. In this way, students participate in the life of the university and study alongside French students. "They've got the best of both worlds," says Paramskas.

Ten places are reserved for the Canadian students in the Nice residences, but the rest must find their own accommodation. Most students prefer to set up their own apartments, says Paramskas, and they find no difficulty in doing so because they have the same access to housing services that French students do.

Of the 40 students who go each year, eight are from Guelph, eight are from Windsor, four

are from Laurier, and the remaining 20 are from Western. If one of the universities fails to meet its quota, students from other Canadian universities are able to apply. The places reserved depend on the budgetary commitment each university makes.

U of G students who are chosen to go must qualify academically; the eight places automatically go to the students with the highest marks. The program was designed for the benefit of French majors in semesters five and six, but it is open to any student capable of taking 300-level courses who possesses the language capabilities.

The program is set up similarly to the London semester in that students pay U of G fees, are eligible for the Ontario Student Assistance Program and are responsible only for their travel and living costs.

Paramskas distinguishes the Nice semester from the program currently under negotiation for a Paris semester. The Paris term would be set up for people wanting to study courses in English in a country with the cultural richness of France. "They're meant for quite different audiences," she says.

Each year, the four universities take turns sending a co-ordinator to Nice with the students. Next year's co-ordinator is from Guelph — Prof. Alain Thomas.

Application forms for next year are available from the main office of the Department of Languages and Literatures, Room 267, MacKinnon building. Students must submit an application form along with a current academic summary by Feb. 15. All students, whether they are accepted into the program or not, will be notified by the end of February. O



# A year in the life of the Committee on University Planning

by Marla Stewart

One of the busiest and most influential committees on campus, the Committee on University Planning (CUP), is in the midst of discussing issues whose ramifications will affect the University's academic future.

This year CUP will deal with task forces and reports relating to agriculture, rural resources, engineering, business and management and strategic planning, as well as an annual budget review.

The 16-member committee, chaired by Prof. Bev Kay, Land Resource Science, is made up of the president, the vice-president, academic, the vice-president, administration, the dean of graduate studies, the dean of research, one member of the Board of Governors and 10 members appointed by Senate: three deans, one graduate student, two undergraduate students and four faculty senators.

## Agriculture

The committee is now in the midst of a discussion on agriculture at the University based, in part, on last year's *Report of the Task Force on Agriculture*. The discussions should have a significant bearing on the future of agricultural programs at the University and on how those programs will be marketed, says Kay.

CUP members will attempt to see if relationships between departments in OAC and other departments can be built, to optimize use of the University's resources. The task force report said Guelph already offers a number of programs outside of OAC that relate to agriculture, and Kay agrees.

"Agriculture goes far beyond the production of food and fibre," he says. It relates to business and management, the environment, food and rural development. "It's that type of interface that CUP is trying to grapple with," he says.

For example, business and management can be viewed as an integral part of agriculture, but also as an important part of hotel and food administration. Food processing and nutrition are important to agriculture, but the University's program in food crosses the college lines of agriculture into family and consumer studies and the biological sciences.

CUP, then, must suggest common threads in undergraduate programs that might be brought together. Interaction among undergraduate programs would capitalize on faculty resources and portray the University's strengths to outsiders more effectively, says Kay.

## Rural resources

Within a few weeks, CUP will receive a report from the Task Force on Rural Resources, which, like the report on agriculture, will take a broader look at rural resources within the context of the entire University. It will address areas where the program may be falling short and suggest possible areas of change.

Like agriculture, rural resources also spans a wide variety of departments, says Kay. For

example, biological scientists have an interest in ecology, fish and wildlife, social scientists are concerned with the human element in the rural environment, engineers have an interest in water resources and the School of Rural Planning and Development is concerned with how biophysical and human resources are brought together within a political framework.

In spite of the University's wide and varied interests in the area, however, Kay thinks that outsiders looking at rural resources at the University may not get the vision of a really strong program. And yet, he says, the task force has looked at the number of full-time faculty working in rural resources at Guelph, and their total number is equivalent to the number associated with some of the largest schools in rural resources in North America.

Kay blames that visibility problem on the fact that the University's effort in rural resources is spread among a whole group of administrative units, and he suggests that in the future, the University might be able to use its resources more effectively.

## Engineering

A third area CUP will deal with this year is engineering, and Kay expects the Task Force on Engineering to be finished its work soon.

Although the School of Engineering has well-defined undergraduate and graduate programs, Kay says the University may need to develop a new vision of engineering at Guelph. He believes the school may need to provide more engineering input in areas beyond the engineering program, but says additional resources will be required if this is to be achieved.

## Business and management

Rather than appointing a task force to look at the areas of business and management at Guelph, CUP has referred this to the vice-president, academic, and the associate vice-president, academic, who are expected to assemble information on what direction business and management studies should take.

Kay expects the report, outlining the University's vision of business and management, to be submitted to CUP by May or June.

Four areas are now involved in business and management: the departments of Economics, Consumer Studies and Agricultural Economics and Business and the School of Hotel and Food Administration. The vice-president, academic, and the associate vice-president, academic, will work with the deans and the department chairs to develop a common view of where the University should go in the business and management area.

Kay says he doesn't believe the University's vision includes establishing a separate school of business administration. He does, however, expect the vice-president, academic, and the associate vice-president, academic, to suggest ways in which the existing business and management courses might be marketed more effectively.

Another of the issues the business and management study must address is limited resources and growth potential. "I suspect the departments and school who have existing business and management courses could accept a lot more students if they had more resources," says Kay.

## Strategic planning

Although the University and CUP spent a lot of time on the strategic plan last fall, 1988 is the University's first year to implement the process. In May or June, a draft document is expected to be presented to the University community for discussion.

In spite of initial concerns among students and faculty, Kay says the plusses of the process and the plan are much greater than the problems that will be encountered.

He says the initial uneasiness among some students and faculty is probably because the University did not keep people as well-informed as they should have in the plan's initial phases. They feared that decisions had already been made that might affect them adversely, and were concerned because they had not been able to provide any input into the decision-making process.

The process that is now in place gives ample opportunity for input, says Kay. Because of that, "the planning process should provide us with a rational way of accommodating aspirations of students and faculty and reconciling these with budget realities."

The process should also give department heads a better opportunity to do long-term planning, says Kay. Rather than year-by-year surprise budget cuts, the strategic plan will help people determine where to put their resources

over the next five or 10 years with a longer-term framework in mind, he says.

"The strategic planning process should provide us with a rational way of developing the programs that we all want," he says. That means some areas are going to grow while others will have to contract, a situation that will lead to much debate, he says. "But if we're mature enough as a University community, we should be able to cope with that."

## Budget

In March, CUP will look at and comment on the total 1988/89 University budget. Last year, for the first time, CUP committed itself to reporting

to Senate on the response of teaching and non-teaching units to budget changes, and Kay says the same may be expected for the current year.

CUP will look at the budget not only in terms of dollars, but will report to Senate later in the year on how those numbers have translated into tangible realities. "A budget cut of \$200,000 only has meaning to staff or students when it is translated into the number of courses or faculty positions cancelled, or a decrease of services offered by the Library or by Medical Services," says Kay. CUP wants to keep the University community informed of long-term plans and developments in terms that everyone can relate to, he says. O

## Liaison co-ordinator to bring new OAC students

Nancy Plato, a 1981 Consumer Studies graduate, has been appointed OAC liaison co-ordinator for a three-year period. Plato's job will be to acquaint high school students and guidance counsellors with opportunities in the agricultural sciences.

"She'll be making arrangements to bring students on campus, and to have some of our faculty and students go into the high schools," says OAC Dean Freeman McEwen.

Plato comes back to Guelph from a position in secondary school liaison at Mount Royal College in Calgary, where she was responsible for the recruitment of new students, the design and production of promotional materials and the development of a faculty recruitment program.

Enrolment at OAC has declined over the past few years, and Plato will work at increasing student numbers through recruitment and marketing.

The position of liaison co-ordinator is a new one for OAC, and it was created partly in response to recommendations in the *Report of the Task Force on Agriculture*, says Prof. Mike Jenkinson, assistant to the dean. The report recommended that OAC become "more market-oriented in our approach, and give our programs greater profile with the high school audience," Jenkinson says.

McEwen agrees that the position was created "to improve our recruiting. We'd like to have more students seeking admission to our programs."

Plato says one of her main objectives will be to broaden the understanding high school students have of Guelph's programs. There are many aspects of agriculture that people are not aware of, she says. "OAC



Nancy Plato.

doesn't equate with farming." Its programs include environmental management, resource use, animal and plant production systems, food product development and business management. Engineering and landscape architecture programs, which are part of OAC, will also be included in the marketing strategies.

Although she is not an OAC graduate, Plato comes to the college with an appreciation and understanding of agriculture. "I have a well-rounded view of agriculture and its related programs, and I think I can offer that combined with my recruitment experience," she says. O

## Good business etiquette gives you an edge

When the job market is tight and business positions are at a premium, what sets you above the rest? What are the extra things you need to know to position yourself in a top career?

The Division of Continuing Education may have the answer for you. In a one-day course March 2, image consultant Ellen Case will address the issue of "Business Etiquette in the '80s."

"Sixty per cent of all social engagements are business-related," says Case. And image plays a

part in how you handle yourself in that business or social setting.

Case defines image as "any message you send out about yourself." In the course, she will discuss the four basic categories of image: visual presentation, non-verbal communication, message delivery and the message itself.

To learn practical, proven techniques in improving business etiquette, call Continuing Education, Ext. 3956. O



Dr. Harry Rubin, centre, who received an honorary doctor of science degree at winter convocation, delivered the inaugural address in the Chappel Lecture in Biomedical Sciences

Feb. 4. With him, left, is OVC Dean Ole Nielsen and Dean of Graduate Studies Doug Ormrod. John Majorossy, Photographic Services

## At Guelph

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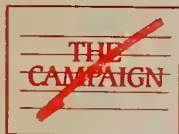
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# J.M. Schneider pledges gift



by Mary Cocivera,  
Alumni Affairs and Development

J.M. Schneider Inc. of Kitchener has pledged \$250,000 to the University's capital campaign. In announcing the gift, Schneider president Douglas Dodds acknowledged the long history of close co-operation between his company and the University.

"Schneider's has been in business for 98 years," he said, "and I would guess our association with the University goes back almost that far."

Schneider's and the University are "more than good neighbors," said Dodds. "Our company relies on Guelph for people and services that are necessary to run our business." J.M. Schneider employs 3,500 people, 180 of whom are management and supervisory. Twenty-nine Guelph graduates work for Schneider's in all levels of management.

Part of the gift — \$175,000 — will be designated to the FACS building expansion. One of two undergraduate laboratories in the addition will be named the J.M. Schneider laboratory in recognition of the company's major commitment to *The Campaign*. The lab will be used by undergraduate students in applied human nutrition and the foods emphasis in consumer studies.

Prof. Elizabeth Gullett, Consumer Studies, says the gift "is a very important factor in enabling us to maintain our high-quality programs."

Prof. Rosalind Gibson, Family Studies, says new labs for nutrition courses are desperately needed. "We are using labs designed for textiles work, which are totally inadequate for the type of work applied nutrition students need to do."

The remaining \$75,000 will support research projects at the University. A small committee at

J.M. Schneider representing research and development, quality assurance and manufacturing will work with a committee at the University to explore research directions. Dodds sees this involvement as a way to strengthen relations between the company and Guelph.

"The issue of the '80s and '90s is the nutritional value of foods," he says. "Consumers are more aware of what they eat. In co-operation with the University, anything we can do to enhance nutrition is in our mutual interest. Our industry has been maligned for not keeping pace with changing tastes and consumer preferences. Schneider's is being more constructive by promoting awareness of the nutritional value of food. The ongoing support of university research is part of this effort."

Many Guelph faculty have been involved with Schneider's in research, ranging from quality assurance to meat processing to economic forecasting. Guelph students have done projects at the Kitchener plant, and Schneider's officials serve on the advisory councils of OAC and the Department of Food Science.

Four Schneider's employees, as volunteers for the University's capital campaign, have been asking regional companies to support *The Campaign*. Ken Murray, a former president of Schneider's, is chair of the regional and associations divisions of *The Campaign*, and last year was named alumnus of honor by the University of Guelph Alumni Association.

Dean of Research Larry Milligan says J.M. Schneider's commitment to research is a "particularly noteworthy involvement of industry and university. It goes beyond the single occasion of providing capital funds to an ongoing commitment to research support. Funding constraints have eroded universities' research infrastructure over the last decade, so this type of support is especially welcome." O



Ontario Hydro's John O'Connor, acting vice-president, corporate relations, left, and Chris Chortlon, manager of community studies and public hearings, right, point out the network of hydro lines across Ontario to Public Relations and Information staff Leslea Dalrymple

Schmitz, second from left, and Pamela Healey, who will each spend three months in a training program with Ontario Hydro to assist them in developing a community relations program for the University.

Barbara Chance, PRI

## PRI staff at Ontario Hydro to study community relations

Public Relations and Information is setting up a new community relations unit to encourage better communication with communities both within and outside the University, says Gerry Quinn, director of PRI.

"As the result of issues that have risen during the past year and the findings of a number of committees, including the Senate ad hoc committee on University-community interaction, it has become obvious that there is a need to communicate much more effectively at all levels with the communities the University serves," says Quinn.

"No longer can private or public organizations afford to operate in a way that doesn't fully involve concerned individuals and communities in decision-making processes," he says. "There is a need for the University to become proactive in its communications with many different communities, to consult with them and build consensus among them."

The public meeting held last year to give local residents an opportunity to express their concerns about the development of University-owned land in their neighborhood is a good example of the benefits proactive communication can bring, says Quinn. "The result was a consensus of support among residents for the plans of the University."

Two PRI staff members have been selected to develop an effective community relations program for the University — Leslea Dalrymple Schmitz and Pamela Healey, both Guelph graduates. In addition to administering on-campus tour programs, display and exhibit activities and a speaker's bureau, they will be responsible for developing specific programs directed at communicating with concerned communities on programs, research, policy and the decision-making process at the University.

To help prepare them for their wider responsibilities, an arrangement has been made with Ontario Hydro to provide them each with three months of training in community relations.

"Ontario Hydro has one of the most effective community relations program of any organization in Canada," says Quinn. "Although they're dealing with one of the most publicly controversial subjects — energy, particularly nuclear energy — they are able to effectively build consensus and support, not only with politicians but with all the communities affected by their activities."

"Few decisions are made at Ontario Hydro without first going through a sophisticated public consultation process where all interested, involved and concerned interest groups and individuals are given the opportunity to have input into the final decision. It is precisely this type of consultation process that we hope to establish at the University."

In addition to providing training in public consultation, the Ontario Hydro program will also emphasize issue identification, assessment and management as they affect the public policy development process.

Healey is currently working as part of Ontario

Hydro's community relations team, learning how to effectively identify interest groups and issues. "When she returns to the University," says Quinn, "her first task will be to identify and develop a database of interest groups and issues related to every program at the University."

In the spring, Dalrymple Schmitz will begin working at Ontario Hydro in the area of public consultation and government relations. "It is hoped that she will bring back to Guelph techniques and processes that will prove beneficial in reaching out to many different communities served by the University," Quinn says.

Chris Chortlon, Ontario Hydro's manager of community studies and public hearings, says the corporation is glad to have an opportunity to share its expertise with the University.

"We're proud of what Hydro has done in the whole communications area," he says. "We're recognized as one of the trendsetters, and we like to share what we've learned."

Hydro, as much as any corporation, has to be responsive to the public, he says. "We have some of the largest projects going on in the world, and we've had to work with communities to manage the impact on them. We're committed to involving people in the decisions we make."

Although the University is operating on a much smaller scale, the communication techniques developed by Ontario Hydro will have many applications for Guelph, particularly in its ongoing discussions about its landholdings, says John O'Connor, Hydro's acting vice-president, corporate relations.

"The University is to the city of Guelph as Ontario Hydro is to Ontario," says O'Connor. "It would be difficult for the University to do anything without having an impact on the community."

Quinn says this is the first time Ontario Hydro has agreed to provide "this kind of insight and training as a co-operative gesture towards a Canadian university. If this program proves successful, we plan to reach out to other organizations to help us acquire the expertise and skills we need to attain the University's goals." O

## Campus Canada

The University of Waterloo has set up an industrial research chair in quality and productivity, sponsored by General Motors of Canada, the Natural Sciences and Engineering Research Council and the university. The three will spend a total of \$930,000 over five years.

The University of Manitoba's allergy research group will receive \$1.1 million a year for four years from the Medical Research Council of Canada to continue its research program. The group will also receive an additional \$170,000 from MRC to buy new equipment.

## OPEN HOUSE IN MARCH



CBC's Michael Enright will be the special guest at this year's College Royal open house weekend.

The student-run event, March 11 to 13 this year, annually attracts up to 30,000 visitors to campus. People of all ages enjoy displays on academic programs and student life and events ranging from medieval jousting to a cat show.

Enright, co-host of CBC Radio's "As It Happens," will officially welcome visitors to College Royal in the main gym of the Athletics Centre March 12 at 3:15 p.m.

The theme of this year's event, "Search for Excellence," will be carried through displays of student clubs and academic units all over campus. Prospective students and their parents will have an opportunity to talk to admissions officers in the courtyard of the University Centre Saturday and Sunday, and to tour the campus and residences. Buses will be available to transport visitors to events as far apart as OVC and The Arboretum. Buses run every half hour between 11 a.m. and 4:30 p.m. (with the exception of 1:30 p.m.).

Saturday and Sunday highlights include live surgery demonstrations at OVC, magic and fashion shows, square dancing competitions, flights over the campus, medieval jousting demonstrations, a cat show, livestock and seed and forage shows, a petting zoo and Old MacDonald's Farm. The dog show will be held in the Athletics Centre Friday evening.

College Royal is actually a 10-day-long event designed by students to generate spirit and friendly competition. It is only on the final weekend that the campus is thrown open to the public.

Kick-off is the judging of the beard-growing contest at a pub March 3 in Peter Clark Hall in the University Centre, followed by the College Royal Ball March 4, where a student will be named "Celebrant" to serve as College Royal's official spokesperson. Other events during the week include a cake-baking contest March 5, crop and livestock judging competitions March 5 and 6, an egg drop competition March 8 and a talentfest March 6. (Watch for details in future issues of *Ar Guelph*.)

"Curtain Call," College Royal's annual musical production, is now in its 35th year. This year's production, "Too Cool for Words," runs from March 9 to 12. Tickets are \$4.50 and are available in the College Royal office, Level 2, University Centre. After Feb. 22, they'll also be on sale at the UC box office.

This year, previous Curtain Call participants are being invited back for a reunion at the Faculty Club following the March 12 show. Videos of past College Royal Curtain Calls will be shown. Tickets for the reunion party are \$8.50 and are also available at the UC box office. O



## A 'yes' for University of Guelph's presence in

Can our University honestly justify continued integrated rural development work in Sulawesi, Indonesia? The answer is "yes." The question has been raised by Prof. John McMurtry, Philosophy, (At Guelph, Jan. 20) as a general ethical question, and his challenge requires a serious response.

I have been personally involved with research concerning Indonesia since 1976 and have lived in the country for a total of 20 months over the past 12 years. My research work in the Mawasangka-Gu subdistricts of Sulawesi in 1982 contributed to our University being considered for the Sulawesi Project. I believe, therefore, that I am not only qualified to speak out on this issue, but professionally obligated to do so.

I would assert that the University's commitments to the "betterment of society" and to the "moral development" of its members are well served by our involvement in rural development in Sulawesi. We are not violating the Senate guidelines on *Involvement in Development Assistance Projects in Foreign Countries*. The Sulawesi Project is not "morally indefensible," nor does it in any way detract from the "integrity" of our University.

To justify this argument, it is necessary to discuss several issues.

McMurtry has not examined the government of Indonesia. He has simply referred to "the Suharto regime." He alleges that the Sulawesi Project "is explicitly under the detailed control and direction of the Suharto regime." That is much like saying that the administration of this University is explicitly under the detailed control and direction of something we might refer to as "the Mulrooney regime."

Just as the government of Canada is a complex institution with many different levels of decision making and authority, so is the government of Indonesia.

My personal experience is that one of the advantages of Canadian involvement in rural development in Indonesia is that we can bring

attention to the needs and wants of rural people in relatively isolated areas, people who otherwise would not be assisted by foreign donor money. There is always a tendency for people who live near the centre to receive a disproportionate share of the wealth. Ask anyone from the Maritimes how they feel about Ontario's share of our national wealth.

The Sulawesi Project is not situated in Java, but in two rural areas that have no political influence and could easily be ignored by the complex web of ministries responsible for various aspects of development. Canadian advisers are able to play an advocacy/liaison role and draw attention to such basic needs as the provision of health services in isolated areas that are most critically in need of development.

Children who otherwise might not receive any education are more likely to be able to learn to read and write. Women who otherwise might not have any voice in village affairs are more likely to be able to participate in local decision making. Women who otherwise would have to walk several kilometres for water may now be more likely to have a well nearer to their home. In other words, to the extent to which the Sulawesi Project actually has any impact at all, the impact is basically local-level rural development.

What would happen if this University was not the Canadian executing agency for the Sulawesi Project? Would the government of Indonesia suddenly change? If we leave the scene, it is likely that nothing will happen at all. Children will continue to die and women will continue to suffer, fishermen will continue to lack resources and farmers (i.e. peasant cultivators) will continue to try to eke out a subsistence living. Of course, we could then feel comfortable in our ethical purity at home and wash our hands of the entire situation. That is, unless we decide to try to find a development project in some other Third World country where there have not been any significant human rights violations.

McMurtry's main error is to think of Indonesia

as a country without a past and without a future. He does not attempt to consider why the situation in Indonesia is as it is, nor does he consider any way in which conditions might be improved. So what if the per capita income is less than \$600 a year, he argues. We don't want to have anything to do with a country that has been influenced by colonialism, political revolution and regional disparities. He doesn't want to risk "moral and scholarly embarrassment," and therefore seems to be arguing that our University should not be involved in foreign assistance projects anywhere in the world. Certainly considering the situation in Tibet, it would be difficult to justify our involvement with the People's Republic of China if we wash our hands of Indonesia.

I worry much more about the possibility that despite our best efforts, the Sulawesi Project will have relatively little impact.

In 1983, when I asked rural school children aged 7 to 12 about the national government, many were not able to name the president or the national capital. Few people in Mawasangka-Gu or San Rego have ever travelled outside their own region. The illiteracy rate is much higher than 50 per cent. The infant mortality rate is sky high. The people we are helping in Sulawesi are not the bulwarks of the national government; they are hardly even considered by the provincial planners. (Or, rather, they were not being given much help by provincial planners until the Sulawesi Project started to draw attention to their plight.)

Who are those demon "local officials" who McMurtry is so worried will lead us to "unsavory ends"? They are people like Pak La Angi, my counterpart during the Mawasangka-Gu development design study. A lifetime resident of the region who managed to attend college, he is now director of social services and genuinely concerned with the problems in his subdistricts. He is trying his best to make sure that people in his area receive the development "packages" that the government has promised to all "critical

areas." He is not in the pocket of any "regime."

In general, there are many considerations to take into account when we provide food aid and other forms of foreign assistance to any country. Should people in Canada have ignored the recent famines in Africa? Many people in Canada seem to believe that ethical considerations concerning human needs are more important than other considerations. What it comes down to is whether or not, all things considered, we should try to help people despite what we may think of policies pursued in the past by Third World governments.

I would argue that unless it can be proven that helping rural people to have something approaching basic subsistence will necessarily make or break a government, then we have a moral and ethical obligation to try to help.

Although in the case of Indonesia it is true that there have been severe human rights violations, it is not true that these have increased in recent years or that the situation has not improved. Most international observers agree that the human rights picture in Indonesia has improved, in part as a result of economic development.

For example, most of the political prisoners who were arrested in 1965/66 for alleged communist activity and treason have been either sentenced or released. The judicial system has improved and awareness of human rights has increased. Pressure from the World Bank and other international agencies has made it clear to key officials and technocrats in the current government that Indonesia must move ahead. McMurtry himself quotes an article from the *Globe and Mail* (July 23, 1987) that makes it clear that the government of Indonesia is not simply going along without any criticism. If there were no foreign assistance to Indonesia, then there would also be much less of a possibility for international criticism of such issues as resettlement schemes.

The contemporary situation in Indonesia is complex. We cannot blend together many

## Report of the ad hoc Committee on University Involvement in Development Assistance Projects in Foreign Countries

*Editor's Note: The following is the Report of the ad hoc Subcommittee on University Involvement in Development Assistance Projects in Foreign Countries, which was approved by Senate in December 1983.*

The President's Advisory Committee on Social Responsibility is to examine the ethical considerations for the University's involvement in international development and research projects. If you wish to provide input to the committee, contact Micki Jones, University secretariat's office, Level 4, University Centre, by Feb. 22. The committee will accept a written report or a verbal presentation, which may be given at an open meeting March 10 from 9 to 11 a.m. in Room 103 of the University Centre.

### Introduction

There can be significant benefits, both for the University and its faculty, from involvement in development projects in foreign countries through direct contact with researchers and facilities in foreign countries. The reputation and prestige of the University can be enhanced by development projects in other parts of the world.

However, when these projects are carried on in countries with repressive governments, serious moral questions may arise that are best addressed before the project is undertaken. The failure to do so could lead to a situation in which the University is committed to a project that is morally indefensible and that gives rise to public criticism. Some of these moral questions go beyond the balancing of potential benefits against potential risks, and involve important questions of public policy and academic freedom.

In determining how the University should deal with this matter, the first difficulty that must be faced is how to reconcile two opposing principles. On the one hand, the principle of academic freedom requires that faculty be given as much freedom as possible in the pursuit of knowledge. On the other hand, the University has an obligation to protect its integrity and to

ensure that its resources are used in ways that best serve its objects and purposes as specified in the University of Guelph Act:

- 3 (a) the advancement of learning and the dissemination of knowledge; and
- 3 (b) the intellectual, social, moral and physical betterment of its members and the betterment of society.

The committee believes that the reconciliation of these two principles requires that a distinction be drawn between activities that are initiated and undertaken by individual faculty members, and activities that are officially sponsored and undertaken by the University. This distinction is difficult to draw in a way that makes it easily applicable in all cases, but the committee believes that the method recommended below will be workable in practice.

The committee believes that the academic freedoms that individual faculty currently enjoy should not be compromised merely on the ground that their activities are to be conducted in a foreign country, even one with a repressive government. The current policy, set forth in the *General Research Policy*, (section 1.2(a)) is:

that, subject to the performance of a faculty member's prescribed academic responsibilities, to legislative restraints, and to specific University policies, a faculty member is free in the choice and pursuit of research, including applying for funds, and in the publication of results.

On the other hand, the committee believes that projects that are sponsored by the University should come under additional scrutiny. Projects carried out in countries with repressive governments pose special dangers for the University, because of the possibility that they may be subverted by local officials to achieve unsavory ends. The University could find that its integrity has been compromised, its purposes undermined and its reputation besmirched.

The committee has rejected the approach

that would establish a definition of repressive governments and forbid any involvement in a country whose government falls within the established definition. Not only would it be extremely difficult to develop an acceptable and workable definition, but the committee is not persuaded that a total embargo would be justified in all cases. The committee believes that each case must be scrutinized individually, and a judgment made that takes account of all relevant factors and circumstances, in accordance with the guidelines listed below.

Such a scrutiny requires knowledge of the social and political conditions in the host country, in order to assess the local consequences of a project and the risk that it may be subverted. In some cases, the knowledge required will be difficult to obtain and it may be necessary to consult officials of various government or international agencies. Complete knowledge will sometimes be unavailable and judgments may have to be made on the basis of the best available information.

The judgments that are called for will sometimes be extremely difficult to make. One issue that has perplexed some other universities that have addressed this matter is how much weight should be given to the argument that the mere official presence of a western university in a country with a repressive regime may undermine local opposition and lend prestige and legitimacy to the regime. In the opinion of the committee, when this argument is adduced as grounds for a total ban on any involvement in a country, it is unconvincing since it greatly overestimates the impact our mere presence can have. There could, however, be situations in which even these factors would need to be taken into account and weighed against the potential benefits to the local inhabitants.

The ad hoc committee, having considered these matters carefully and having consulted the director of the Centre for International Programs and the dean of research, recommends the following policy:

- Any development project that is undertaken on the basis of a contract or letter of agreement signed by the University and that is to be conducted, in whole or in part, in a foreign country, must be assessed on the basis of the following guidelines:

- (a) The rights and safety of University personnel must be adequately protected;
- (b) The right of the University to select its own personnel must be explicitly recognized;
- (c) It should have beneficial consequences for the local inhabitants, and any risk of harmful consequences must be minimal;
- (d) Any risk that the project will be subverted by local officials to achieve ends that would be unacceptable to the University must be minimal;
- (e) The right of the University to withdraw from the project if the above conditions cease to be met must be recognized; and
- (f) Insofar as it involves a research component, it must adhere to existing University policies governing research projects as set out in the *Research Policies* handbook.

- No project shall be undertaken unless the director of the Centre for International Programs approves the project as conforming to the requirements of this policy.
- Individual faculty activities are exempt from the requirements of this policy provided that the University is not to be regarded as a sponsor of the activity. Allowing a faculty member to use his or her time and University facilities, and administering externally awarded funds, does not constitute sponsorship. However, a faculty member engaged in such activities in a foreign country is expected to take reasonable steps to ensure that the public realizes that those activities are not sponsored by the University but have been undertaken on the faculty member's own initiative. ○



## Indonesia

different propositions pertaining to different phenomena. Each argument must be examined analytically before a general conclusion can be drawn about the situation as a whole. Thus, for example, "large-scale deforestation of tropical rain forests" has to be considered separately from the issue of "systematic torture." The two topics are not inter-related in the manner implied by McMurtry. Thus, the fact that organizations such as the British International Institute for Environment and Development are concerned with such an issue as the destruction of tropical rain forests and are being listened to by planners and bureaucrats in the Indonesian government is quite distinct from the issue of possible use of torture.

The transmigration and resettlement schemes, for example, have also been severely criticized by the international scholarly community, and the government of Indonesia has greatly improved the schemes, cut back on the numbers of transmigrants and tried to provide more efficient and helpful services for settlers.

The presence of so many foreign specialists in Indonesia has, if anything, made the government of Indonesia much more vulnerable to attack and open to alternatives. Educational exchange programs have ensured that many officials in the government of Indonesia are well educated and sensitive to modern standards of justice and honesty.

I say "modern," but I should also point out that we are in great danger of a Eurocentric, Western European bias whenever we discuss Indonesian views on administration. We should not expect an Indonesian official to be an exact replica of a Canadian official. Nevertheless, anyone who visits Indonesia today can note the real development that has taken place in terms of changed attitudes to corruption and nepotism.

Prof. Willem F. Wertheim, professor emeritus at Wageningen Agricultural University, an outspoken neo-Marxian critic of many aspects of Indonesian government policy, has written a profound essay on the importance of seeing things in historical context. Anyone who wishes to understand Indonesia today should also read an essay by Prof. Benedict Anderson of Cornell University's modern Indonesia program on "The Idea of Power in Javanese Culture."

Wertheim and Anderson are both critics of many aspects of Indonesian administration and have had strong words to say about the government of Indonesia before international gatherings and government committees such as the U.S. Senate Foreign Relations Committee. Despite their criticisms, however, they have continued their involvement in Indonesian studies both in the context of institutionally sponsored, development-related work and in private scholarly analysis of current trends.

For four years, I was the secretary-treasurer of the Canadian Council for Southeast Asian Studies and a member of the board of the Canadian Asian Studies Association. I have never heard any of my professional colleagues say that Canada should break diplomatic ties, discontinue trade or end foreign aid. And no one acquainted with Indonesia has implied that institutions or private scholars should not be involved in development research in that country.

Although specific projects and decisions have been roundly criticized, the idea that human

rights violations *per se* constitute adequate cause for non-involvement has never been voiced by the scholarly community in Canada.

I am every bit as concerned as McMurtry and others about the plight of the people of East Timor and of Irian Jaya. But I do not feel that we accomplished anything by punishing the people of Sulawesi through failure to attempt to do integrated rural development.

The German sociologist Max Weber made a distinction between an ethic of ultimate values and an ethic of responsibility. McMurtry has chosen to uphold the importance of an ethic of ultimate values. He is saying that if there is evil, we must not be involved. He has not provided any positive statement of where in the world our University can be involved without coming into contact with harsh realities.

My argument is basically that we should continue to be involved in international development, according to the Senate guidelines, with both eyes open, but with a genuine concern for the people of Sulawesi.

The University is responsible for the policies it helps to implement and for evaluating their success. (McMurtry misreads the *Sulawesi Regional Development Inception Report* of November 1985 to imply that the emphasis on institution building and "advising not doing" somehow implies that the University abdicates responsibility for that advice. Our responsibility is to try to help ensure that eventually development will occur without our assistance.)

The Sulawesi Project is not under the "detailed control and direction" of any "regime." We should definitely not merely be functionaries. But we should not be afraid of "jumping on a moving train" if we feel that by doing so we can help to alleviate suffering and can provide a voice for people who otherwise would not be heard.

Both the people of Sulawesi and the University community can benefit from the project. A good example of a successful university development project was the link between the University of Kentucky and Indonesian institutions, which has resulted in greatly improved agricultural productivity. Kentucky, in return, has developed a reputation for excellence in rural and regional development.

As the 1983 Senate report on the University's foreign involvement in development projects points out: "The judgments that are called for will sometimes be extremely difficult to make." McMurtry has done a service to the University by bringing the complex questions pertaining to Indonesian development to the forefront, and no doubt the subject will continue to be debated. I believe, however, that the questions of ethics and academic freedom raised by the Senate committee can be regarded in quite a different light in Sulawesi than implied by McMurtry's brief article. The University's presence in two rural areas is not likely to "lend prestige and legitimacy" to a "repressive regime" in the case of Sulawesi.

As stated in the Senate report, when political repression is "adduced as grounds for a total ban on any involvement in a country, it is unconvincing, since it greatly overestimates the impact our mere presence can have." Although there can be situations where these factors weigh against the potential benefits to the local inhabitants, such as in South Africa, that is not necessarily the case in Sulawesi.

Prof. Hans Bakker,  
Sociology & Anthropology.

## Workshop on science and technology in food crisis

A workshop on "Science and Technology in the World Food Crisis," to be held on campus Feb. 11, has attracted two prominent speakers.

Dr. Sergio Trinidad, executive director of the United Nations Centre for Science and Technology for Development and assistant secretary-general of the United Nations for Science and Technology, will speak on "Technological Assessment and Policy Options for Development."

Prof. Robert Henderson, department of political science, University of Western Ontario, a specialist in international affairs who has done field research in Britain, Portugal, Italy and East/West/Southern Africa, will speak on "Food As Economic Statecraft — Canadian and American Food Aid/Trade with African Countries."

The workshop, free and open to the public, is a follow up to a Centre for International

Programs conference held at Guelph on the same topic in 1986. It's intended to encourage faculty and graduate students to submit material for a book on the topic, says Prof. Hans Bakker, Sociology and Anthropology.

"We're interested in receiving manuscripts on a wide range of topics related to food security, regardless of whether they've been previously published in professional journals," says Bakker.

The workshop, which begins at 2 p.m. in Room 141 of the Animal Science/Nutrition building, is hosted by the University's Food Security Research Group, which is chaired by Prof. Bill Tossell, Crop Science. The speakers' visits are made possible through funds received by Bakker from the University Inter-College Fund to encourage interdisciplinary research and conferences.

For more information, call Bakker at Ext. 3545. O



## Squash pie beats out pumpkin in taste test

Squash pie may not sound mouth-watering, but taste tests indicate it beats pumpkin pie by a mile.

Mary Kay Keenan and Marnie Slavnik, technicians in the Department of Horticultural Science, conducted the tests recently with seven pies they'd baked using six different kinds of squash and one popular pumpkin variety grown at the Cambridge Research Station.

Biologically, the squash and the pumpkins come from the same family, but consumers see them as distinctly different vegetables.

Twenty-five panelists were asked to judge the fare on the basis of texture and consistency, flavor and visual appeal. The winner, according to the panel, was a banana squash called Northrup King, officially known as variety NVH 4002, developed by the Northrup King Seed Co. It scored 22 out of a possible 30 points. The pumpkin rated just 16 out of 30, placing it last.

The scores don't surprise Keenan. "A few panelists gave the pumpkin the highest score," she says, "but they were the minority who had traditionally eaten pumpkin pie made from homegrown jack-o-lantern types of pumpkins." She says canning companies use significant quantities of banana squash in their canned pumpkin for many of the same reasons the panelists liked it — better flavor, texture and



You can have your squash . . . and eat it too, says Mary Kay Keenan.

Owen Roberts, Office for Research

color.

The testing concludes two years of yield and cooking quality research being conducted by the department at the request of the Ontario Ministry of Agriculture and Food, on behalf of a commercial Ontario canner. Research coordinator is Prof. Robert Coffin, Horticulture. O

## Personals

For Sale: Pioneer three-motor, three-head, reel-to-reel tape deck, Andre, Ext. 8347 or 856-9377 evenings. Single bed with steel rug roller frame, 8 x 10' rust carpeting, Singer portable sewing machine, 14-cubic-foot Westinghouse chest freezer, ironing board, black Persian lamb jacket with mink collar, desk lamp, 821-1494 evenings. Child bike carrier, booster seat, child's skates, size 12 and 13; royal blue drapes with liner; inside door; and down jacket, medium, 822-3129. Bell piano, Ext. 8705 or 836-3033. Stove in good working condition, three-seat gold sofa and brown chair, 837-3809 after 5 p.m. Antique piano, excellent condition, 822-0417 after 5:30 p.m. Ariston RD 11 S Model turntable with Suniko MMT tone arm and Nagoka Boron 11 cartridge and record interface mat, 821-0052. Brand-new solid oak change table, portable dishwasher, Swing-a-Matic, rollaway bed, electric baseboard heater, 837-2205 after 5 p.m. Living room drapes 20' x 103" and dining room patio drapes 113" x 94", beige pattern thermal; three-piece bathroom tub, toilet, sink and counter, Ext. 3044. 1985 Ford F150 pick-up truck, with short box and cap, standard, power steering and brakes, 29,400 miles, Paul, 821-0912 or 763-6786.

Wanted: Unfurnished flat with garden and parking, reasonable rent, for professional woman and cat, rural/semi-rural setting

ideal, anywhere in Guelph, Acton, Fergus area, Ext. 3103. Employment for 19-year-old German woman with English- or French-speaking Canadian family as au pair for one year, starting in August, 824-9088.

Available: Modern three-bedroom home in Clacton-on-Sea, Essex England, to trade for home in Guelph area for several weeks this summer by retired adults wishing to visit this region, central heating, garden, 80 minutes from London, easy access to continental Europe, Ext. 8748 or 821-3116 evenings. Word processing, typing, resumes, data entry on a PC, 824-2426.

For Rent: Two-bedroom semi-detached house on Neeve Street, available May 1 or later, \$700 a month plus utilities, Gabrielle, Ext. 6031. New three-bedroom raised bungalow, single car garage, close to University, \$775 plus utilities, George, 763-8093 or 836-7050. Shared accommodation for responsible adult in large four-bedroom home located on conservation area with ample parking, close to University, leave message at 763-5506.

"Personals" is a free service offered by At Guelph for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to At Guelph one week before publication. O



# Briefly

## Computing seminars offered

Computing Services and Communications Services are offering a series of orientation seminars during the winter semester. The two-hour seminars are free of charge. A two-day "Introduction to SAS" is Feb. 15 and 16 at 10 a.m.; "SAS/GRAPH" is Feb. 17 at 10 a.m.; "SAS/PC" is Feb. 18 at 10 a.m.; "Introduction to NetNorth" is Feb. 23 at 10 a.m.; "Scientific Computing" is Feb. 24 at 1 p.m.; and "WordPerfect Special Features" is Feb. 25 at 10 a.m. All courses are in Room 212, ICS building. Register in person in Room 204, ICS, or call Ext. 8888.

## Color in Australia

Prof. Jackie Wolfe, University School of Rural Planning and Development, will speak on "Black Fella Business and White Fella Business in North Australia" Feb. 19 at noon in Room 313, MacKinnon building. She will report on her research findings from the North Australian context, with comparisons drawn from Native Canadian experiences.

## Board of Governors

The Board of Governors meeting tentatively scheduled for Feb. 25 has been cancelled. The next regularly scheduled meeting will be held March 24.

## International development

The Society for International Development will hold an open forum for members and non-members Feb. 11 at noon in Room 132, MacKinnon building.

## Noon-hour concert

Donna Klimoska, mezzo-soprano, and Laurent Philippe, piano, are guest performers at the Department of Music's noon-hour concert Feb. 11. Klimoska received her master's degree in voice under Gladys Childs Miller at the New England Conservatory of Music in Boston. She has performed in recital and opera in the United States, with orchestra in the festivals at Tanglewood, Hopkins Centre, Popayan in Columbia, with the Quebec Symphony and with the CBC Chamber Orchestra. She is on the voice faculty at Carleton University. Philippe is a graduate of the Paris Conservatory of Music, where he was awarded first prize in piano and in chamber music at the age of 18. He is a vocal coach at the University of Ottawa.

Program 1 at 12:10 p.m. in Room 107, MacKinnon building, will consist of "Spesso per Entro al Petto" by Barbara Strozzi; "Pietosi,

Allontanatevi" by Giovanni Felice Sances; "Se l'Aura Spira" by Girolamo Frescobaldi; "Dein Blaues Auge," opus 59, n.6, "Von ewiger Liebe," opus 43, n.1, "Der Gang zum Liebchen," opus 48, n.1, and "Botschaft," opus 47, n.1 by Johannes Brahms; "Spleen," opus 58, n.3, "En Sourdine," opus 58, n.1, "Green," opus 58, n.3 and "C'est l'Extase," opus 58, n.5, by Gabriel Faure; and "Quatre Poemes de Guillaume Apollinaire" by Francis Poulenc. Program II at 1:10 p.m. will feature "At Sea" by Charles Ives; "Chansons de Bilitis" by Claude Debussy; "Without Sun" by Modeste Mussorgsky; and "Quatro Canciones Vascas" by Felix Lavilla.

## Theatre in the Trees

The Arboretum presents *Key for Two* Feb. 13 and 27 and March 5, 19 and 26. Buffet begins at 6 p.m.; the play begins at 8 p.m. Brunch dates for *Key for Two* are Feb. 21 and 28 and March 13 and 27. Brunch begins at 12:30 p.m.; the play begins at 2:30 p.m. Tickets are \$25.50, and can be purchased at the University Centre box office.

## Free trade forum

A free trade forum on "The Canada-U.S. Trade Agreement — What Does it Mean for Us?" will be held Feb. 17 at 7:30 p.m. in Peter Clark Hall. Sponsored by the Economics Department, the Economics Club, Continuing Education and the Guelph Chamber of Commerce, it features guest speaker Gordon Ritchie, Canada's deputy chief trade negotiator, and a question panel with representatives from labor, business, agriculture, the arts and the University. Anyone interested in learning more about free trade can enrol in the Continuing Education course "Free Trade: Yes or No?" taught by Prof. Bram Cadsby, Economics. The four-week course begins Feb. 11. For more information, call Continuing Education, Ext. 3956.

## Satellite video conference

A satellite video conference on "Practical Applications of Artificial Intelligence" will be held Feb. 18 from noon to 3 p.m. Cost is \$25. To register, call Laura Peters, Ext. 3415, by Feb. 12.

## Conservation talk

Guelph Field Naturalists have invited Rick Dowson to discuss natural area conservation by the Grand River Conservation Authority at their next meeting Feb. 11. It begins at 7:45 p.m. at the Dublin Street United Church. Everyone is welcome.

## Have a HAFA meal

Great food at low prices await diners at the HAFA Restaurant Feb. 11. From 11:45 a.m. to 1 p.m., the Bakers Dozen Restaurant features broccoli and cheese quiche, tarragon carrots and fries, and profiteroles supreme with chocolate sauce. For reservations in the dining room, call Ext. 8116. Buffet service is also available.

## An ice walk

Come out to The Arboretum Nature Centre and explore the dark secrets that lie beneath the ice covering Victoria Pond Feb. 14 at 2 p.m.

## Owl prow

A night stalker's owl prow Feb. 20 at 7 p.m. at The Arboretum Centre will explore the behavior and ecology of owls and what kind of owls are found in the Guelph area. Participants will ear pool to known owl hot spots. Admission is \$2. Register at Ext. 3932.

## Valentine balloons

Send a surprise to your favorite valentine. Arrange to have a valentine balloon delivered by a valentine clown anywhere on campus. Purchase valentines Feb. 10 in the University Centre courtyard. Delivery dates are Feb. 11 and 12. Prices range from \$1.50 for a regular balloon to \$12 for a dozen. The event is sponsored by the University Catholic Community.

## Big Brothers

The Big Brother's Association of Guelph and Wellington County will hold the University challenge in its Bowl for Millions Campaign Feb. 19. For more information, call 824-5154.

## Mind and Medium

"Mind and Medium," an exhibition of screen art, Islamic design stucco murals, mosaic tile, stain glass and tie-dye by Ugandan-Canadian artist Moyez Alidina, opens March 1 at the Faculty Club, Level 5, University Centre, and continues to March 30.

## Maple syrup volunteers

The Arboretum needs volunteers to help with maple syrup programs from March 8 to April 10. If you have an hour or two each week, contact The Arboretum for information by campus mail or by calling Ext. 3932.

## Directed prayer

The Lent of Directed Prayer, a means of introducing people to praying with scripture, will take place from Feb. 21 to March 26. On Feb. 21, an introductory gathering will begin at 1 p.m. in Room 103, University Centre. Between Feb. 22 and March 26, participants will meet once a week. Anyone interested in knowing more about Lent of Directed Prayer should contact any of the University chaplains, Room 151, Johnston Hall.

## Investment seminar

The International Association for Students of Economics and Commerce is sponsoring "After the Crash," an investment seminar with financial consultant Peter Evans of Moss, Lawson and Co. Feb. 12 at 5:30 p.m. in Room 103, University Centre. Admission is free.

## African politics

The African Students Association is hosting a discussion of "African Politics and World Development" with renowned educator and human rights leader Kwame Ture (formerly Stokely Carmichael) Feb. 18. It begins at 5 p.m. in Room 200, Botany/Genetics/Zoology building. Admission is \$3. Tickets are available at Room 222, University Centre, at the UC box office and at the door.

## A hearty meal

The Whippetree is offering a special valentine's dinner for two Feb. 11 to 13. It includes Hearts of Palm salad, chateaubriand and dessert, at \$29.95 a couple. For reservations, call Ext. 3500.

# Focus President of the Staff Association

Mary Ann Robinson, an operator in Central Duplicating, is the new president of the University of Guelph Staff Association (UGSA).

As president of the 825-member union, which is made up of a diverse group of clerical people, technicians, library assistants, engineers, draftspeople, agricultural assistants and others, Robinson faces a full schedule of activities during her one-year term.

Apart from heading up the executive and looking into the grievances and complaints of union members, Robinson will be in charge of negotiating a major contract with the University. Every two years the contract is renegotiated, and this year the issues will be money and vacation time. She says she wants to see salaries boosted and vacation time increased — "closer to what the faculty have."

As well as renegotiating the contract, Robinson will be involved in the process of establishing gender-neutral evaluations for all jobs, as required by the pay equity legislation that came into effect Jan. 1. The evaluations will determine whether any groups are paid less because they are in traditionally female jobs. "It involves lots of job evaluation," she says. "Pay equity is a huge, huge issue."

Robinson does, however, have the benefit of "a very pleasant group of people on the executive, which makes it very enjoyable."

Along with her executive, Robinson looks after setting up programs and workshops for the UGSA — "ongoing educational functions that will be of value." Recently, the group viewed a film on sexual harassment, and Robinson expects to have a forum on pay equity in the near future.

UGSA members publish a newspaper every



Mary Ann Robinson

Marla Stewart, PRI



# Awards

Ethel Carr of Mississauga presents the 1987 Samuel Carr Scholarship to Scott Jerney of Hawkestone, a graduate of the associate diploma in agriculture program, left, and the William Park Carr Scholarship to Doug Johnston of Listowel, a B.Sc.(Agr.) graduate. At right is

OAC Dean Freeman McEwen. The \$3,500 Carr scholarships are open to students whose university career has involved campus and community activity and a good academic record and who have become active farmers upon graduation.

OMAF



# Coming events

## WEDNESDAY, Feb. 10

Worship - Eucemical Holy Communion, 12:10 p.m., UC Level 5.  
**Biochemistry Seminar** - "Malondialdehyde Derivatives in Urine," Harold Draper, 12:10 p.m., MacNaughton 222.  
**Botany Seminar** - "Biosynthesis and Photosynthetic Allocation in Microalgae," Ralph Smith, 3 p.m., Botany/Genetics/Zoology 117.  
**Continuing Education** - "Investment Alternatives," 7 p.m., eight weeks, register at Ext. 3956/7.

## THURSDAY, Feb. 11

**Pathology Seminar** - "The Role of *Mycoplasma* spp. in Equine Infertility," V. Bermudez, 11:10 a.m., Pathology 220.  
**Society for International Development** - Open Forum, noon, MacKinnon 132.  
**Worship** - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.  
**Gerontology Seminar** - "Adaptation and Well-Being of Very Old Adults After Hospitalization," Barbara Gfeller, 12:10 p.m., UC 334.  
**Concert** - Donna Klimoska, mezzo-soprano, and Laurent Philippe, piano, 12:10 and 1:10 p.m., MacKinnon 107.  
**Volleyball** - Vs. Waterloo, women's, 6 p.m.; men's 8 p.m., Athletics Centre.  
**Hockey** - Vs. York, women's, 7:15 p.m., Athletics Centre.  
**Workshop** - "Food as Economic Statecraft: Canadian and American Food Aid/Trade with African Countries," Robert Henderson; "Technological Assessment and Policy Options for Development," Sergio Trinidad, 2 p.m., Animal Science 141.  
**Concert** - University of Guelph Big Band, 9 p.m., UC 103, \$1.

## FRIDAY, Feb. 12

**Schedule of Dates** - Last day for submission of student petitions, second meeting.  
**Worship** - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Eucemical Holy Communion, 1:10 p.m., Chapel; Muslim Students' Association, Juma'ah Prayer, 12:30 p.m., UC 332.  
**Investment seminar** - "After the Crash," Peter Evans, 5:30 p.m., UC 103.

## SATURDAY, Feb. 13

**Art Exhibit** - "Snow, Weiner, Nannucci," Macdonald Stewart Art Centre.  
**Worship** - Muslim Students' Association Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
**Dinner Theatre** - Theatre in the Trees, Key for Two, 6 p.m., The Arboretum Centre, \$25.50.

## SUNDAY, Feb. 14

**Worship** - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Eucemical Campus Ministry, 10:30 a.m., UC 103.  
**Arboretum** - Sunday Afternoon Walk, "Voyage Beneath the Ice," 2 p.m., Arboretum Nature Centre.  
**Concert** - Guelph Youth Orchestra, 3 p.m., OAC Centennial Centre, The Arboretum.

## MONDAY, Feb. 15

**Schedule of Dates** - Mid-Semester Break, no classes scheduled.  
**Human Biology Seminar** - "The Roles of CO<sub>2</sub>, O<sub>2</sub> and Acid in Arteriovenous H<sup>+</sup> Concentration Differences During Muscle Contraction," W.N. Stainsby, 3 p.m., Human Biology 207.  
**Commtech '88** - "Cashing in Your Chips," 5 p.m., UC 441.  
**Worship** - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, Feb. 16

**Schedule of Dates** - Mid-Semester Break, no classes scheduled.  
**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.  
**Continuing Education** - "So You Want to Go to University/Study Skills," 7:30 p.m., four weeks, register at Ext. 3956/7.  
**Hockey** - Vs. Toronto, men's, 7:30 p.m.,

Memorial Gardens.  
 Senate - Meeting, 8 p.m., MacNaughton 113.

## WEDNESDAY, Feb. 17

**CUSO** - Information Table, 10:30 a.m. to 7:30 p.m., UC courtyard; Information Meeting, 7:30 p.m., UC 103.  
**Concert** - Dancemakers, noon, UC courtyard.  
**Worship** - Ash Wednesday services - Roman Catholic Mass, 12:10 p.m., UC 442; Eucemical Holy Communion, 12:10 p.m., UC Level 5.  
**Biochemistry Seminar** - "Microtubule Assembly Dynamics and the Cell," Bob Keates, 12:10 p.m., MacNaughton 222.  
**Botany Seminar** - "Regulation of Carbonic Anhydrase Expression," John Coleman, 3 p.m., Botany/Genetics/Zoology 117.  
**Public Forum** - "The Canada-U.S. Trade Agreement - What Does It Mean for Us?" Gordon Ritchie, 7:30 p.m., Peter Clark Hall.  
**Drama** - The Importance of Being Earnest, 8 p.m., War Memorial Hall, \$8.50 to \$11.50.  
**Basketball** - Vs. Brock, men's, 8 p.m., Athletics Centre.

## THURSDAY, Feb. 18

**Concert** - The Tudor Singers of Montreal, noon, MacKinnon 107.  
**Worship** - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.  
**African Students' Association** - "African Development and World Politics," Kwame Ture, 5 p.m., Botany/Genetics/Zoology 200, \$3.

## FRIDAY, Feb. 19

**Schedule of Dates** - Last day for applications to graduate at spring convocation.  
**Worship** - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Muslim Students' Association, Juma'ah Prayer, 12:30 p.m., UC 332; Eucemical Holy Communion, 1:10 p.m., Chapel, UC Level 5.  
**Seminar** - "Black Fella Business and White Fella Business in North Australia," Jackie Wolfe, noon, MacKinnon 313.  
**Current Issues in Agriculture** - "Misguided Government Policies," Jim Romahn, 3:10 p.m., Crop Science 121.  
**Hockey** - Vs. Western, men's, 7:30 p.m., Memorial Gardens.

## SATURDAY, Feb. 20

**Worship** - Muslim Students' Association, Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
**Basketball** - Vs. Windsor, men's, 2 p.m.; women's, 4 p.m., Athletics Centre.  
**Arboretum** - "Night Stalker's Owl Prowl," 7 p.m., Arboretum Centre, register at Ext. 3932.

# Graduate News

The final oral examination of Cornelia Kreplin, Pathology, a candidate for the doctor of philosophy degree, is Feb. 12 at 9 a.m. in Room 2635, OVC. The thesis is: "A Study of Infertility and Immune Response in Cattle Associated with *Ureaplasma diversum* Infection." Kreplin's supervisor is Prof. Rick Miller. Interested members of the University community are invited to attend.

The following graduate students have successfully completed requirements for their PhD programs and will graduate at spring 1988 convocation: John Kenneth Bailey, Animal and Poultry Science, whose thesis title is: "Selection Criteria for Sea-Ranch and Cage-Reared Atlantic Salmon (*Salmo salar*);" Khandakar Qudrat-Elahi, Agricultural Economics and Business, "An Analysis of the Impact of Changes in the External Value of the Canadian Wheat Economy;" Diane Elizabeth Mather, "Properties of a Ratio Selection Criterion Used to Improve Yield and Maturity in Maize (*Zea mays* L.);" and Cheryl Robin Montgomery, Chemistry and Biochemistry, "Photochemical Studies of Small Molecules Dissolved in PMMA Matrices." O

## SUNDAY, Feb. 21

**Brunch Theatre** - Theatre in the Trees, Key for Two, 12:30 p.m., The Arboretum Centre, \$25.50.  
**Sunday Afternoon Walk** - "Winter Wabbits," 2 p.m., Nature Centre.  
**International Cinema** - "Round Midnight" (West Germany), 8 p.m., MacNaughton 105, \$2.

## MONDAY, Feb. 22

**Our World** - "Glasnost and the KGB," Fred Eidlin, 12:10 p.m., UC 441.  
**Lecture** - "Characterization of Rat and Human Cytochrome P-450 Enzymes and Genes: Relationship to Metabolism of Xenobiotics," Peter Guengerich, 3:30 p.m., UC 442.  
**Commtech '88** - "Personalities and Profits," 4 p.m., UC 103.  
**Worship** - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.  
**Drama** - *Smoke Damage*, 8 p.m., War Memorial

Hall, \$3.50 and \$4.50, continues to Feb. 27.

## TUESDAY, Feb. 23

**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.  
**Land Resource Science Seminar** - "Field-Scale Water Relations for an Eroded Piedmont Soil," Harold Van Es, 2:10 p.m., Land Resource Science 124.

## WEDNESDAY, Feb. 24

**Instructional Development Seminar** - "The Process of Writing and the Computer," Stuart Hunter, noon, Blackwood Hall 211.  
**Concert** - Cliff Erickson, noon, UC courtyard.  
**Worship** - Eucemical Holy Communion, 12:10 p.m., Chapel, UC Level 5.  
**Botany Seminar** - "Plant Cell Growth," David Brumell, 3 p.m., Botany/Genetics/Zoology 117.

# Drama's guest artist directs first production of season



Mary Vingoe.

Barbara Chance, PRI

The Department of Drama has an award-winning director/playwright/actor as guest artist this semester. Mary Vingoe is directing the department's production of *Smoke Damage*, which opens Feb. 22 at the Inner Stage, and is also teaching a seminar in playwrighting.

Vingoe's background particularly suits her to work within a university setting. A native of Halifax, she received her BA in theatre from Dalhousie University in 1977. The following year, she was awarded a special MA scholarship, which she held at the Graduate Centre for the Study of Drama at the University of Toronto.

Since her graduation from U of T in 1978, Vingoe has worked professionally as a playwright, director and actor in theatre throughout Ontario and Nova Scotia, including Nightwood Theatre, the Shaw Festival and Mulgrave Road Coop.

In 1984 her performance in her own adaptation for radio of the short story *The Yellow Wallpaper* was nominated for an ACTRA Award as the best performance on radio. That same year she directed a co-production for Nightwood Theatre and Theatre Direct Canada titled *Love & Work Enough*, which received the Dora Mavor Moore Award as the outstanding production in 1984.

Vingoe maintains close ties with Nova Scotia. She is co-founder and artistic director of the Ship's Company in Parrsboro on the Bay of Fundy - a summer theatre that produces original Maritime work onboard a refurbished historic ferry, the MV Kipawo.

The Ship's Company is community based. Although the theatre operates in the summer, it is not a theatre for tourists. The company is rooted in the community, drawing on the local residents not only for its audience, but also to perform with professional actors in the shows.

Vingoe will return to Parrsboro at the end of the semester to direct *The Summer of Handley Page*.

*Smoke Damage: A Story of the Witch Hunts* is the first production of the 1988 season. The play uses satire to tell the story of witch hunts in Europe between the 15th and 17th centuries, as five very different modern women embark on a vacation tour of the witch-hunt sites and are transformed by their experiences into terrorists - with a twist. Moving backwards and forward between the present and the past, the play uses a

variety of theatrical techniques, including song and dance.

The set is designed by Prof. Bruce Koenig, with lights by Paul Ord and costumes by Joanne Sugg, a senior design student in the Drama Department. The music has been created by drama student Mark Fisher, who wrote and performed the music for last fall's production of *Richard III*. The play is acted, crewed and stage managed by drama students.

*Smoke Damage* runs from Feb. 22 to 27 at 8 p.m. at the Inner Stage in the MacKinnon building. Tickets can be purchased at the University Centre box office or at the Bookshelf Cafe for \$4 (Monday through Wednesday), and \$5 (Thursday through Saturday). For credit-card orders, (tickets can be picked up at the door), call Ext. 3940. O

# Submissions welcome

At Guelph welcomes contributions from members of the University community.

"Letters to the Editor" are invited, and the "Faculty, Staff & Student Activities" section has been reinstated. Submissions are also welcome for "Forum," a section for editorials, and a "Speeches" column. If you have given a speech recently - or read one that is relevant to the University - share it through At Guelph.

Also, if you know someone who would make a good subject for a human interest article for the "Focus" column, give us a call.

All submissions should be typed, double spaced, and signed by the correspondent. Each will be verified by a phone call. The executive editor reserves the right to select, edit and position all copy.

If you have some ideas on how to make At Guelph a more informed and involved University community publication, call or write Public Relations and Information, Level 4, University Centre, Ext. 3864. O



# Third Age Learning gets funding

by Helen Brimmell,  
publicity director, TAL

The beaming smiles these days on the faces of the executive of Third Age Learning — Guelph (TAL) are because of two unexpected developments. Enrolment in TAL's first course is 247, far ahead of the anticipated 85 to 150 registrants, and TAL has received a \$8,656 New Horizons grant from Jake Epp,

federal health and welfare minister.

The TAL program was founded last spring after Prof. Mark Waldron, director of the University School of Part-Time Studies and Continuing Education, saw similar groups in Europe. While maintaining a friendly but separate relationship with the University, TAL offers spirited programs for retirees 55 and up.

The program kicked off last month with "Music is More than Notes," a course taught by University of Toronto professor Helen Hutton. It runs from 10 a.m. to noon in War Memorial Hall.

Music will not be TAL's only subject. Program chair Dr. Rick Richards is now surveying audience preferences to plan courses for next fall. O



Neil Sullivan, assistant treasurer of Third Age Learning — Guelph, right, accepts a cheque for \$8,656 from Guelph MP Bill Winegard, as Prof. Mark Waldron, founder of the program, looks on.

## Job opportunities

As of At Guelph deadline Feb. 5, 1988, the following opportunities were available:

**Mechanical Engineer-Design Co-ordinator,** Engineering. Salary commensurate with qualifications and experience.

**Workshop Supervisor,** Department of Physics. Salary range: \$544.98 minimum; \$624.29 job rate (level 5); \$769.33 maximum.

**Special Constable,** Police Division. Salary range: \$25,361 start rate.

*The following positions were available to on-campus employees only:*

**Head Technician,** Nutritional Sciences. Salary range: \$414.48 minimum; \$479.33 job rate (level 5); \$594.59 maximum.

**Sergeant,** Police Division. Salary commensurate with qualifications and experience.

**Police Chief,** Police Division. Salary commensurate with qualifications and experience.

**Head Cashier,** Department of Food Services. Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

**Invoice Clerk,** Central Reservations and Conferences, Department of Residences. Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

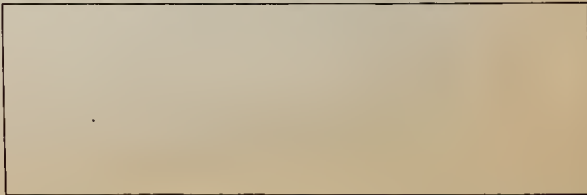
**Custodian 4,** Housekeeping Department, two positions. Job rate: \$11.20 per hour, probation rate: \$.20 per hour lower than job rate.

**Secretary to the Director,** Office for

Educational Practice. Salary range: \$333.04 minimum; \$384.36 job rate (level 5); \$477.27 maximum.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.

Postage paid in cash at first-class rates, Permit 1149, Guelph, Ontario, N1G 2W1.





UNIVERSITY  
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*Guelph*

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## Inside:

Strengthening China ties .....	1
My best friend "Lester" .....	1
Conference office braces for big season ...	1
Learning in London .....	2

## Cover:

Stressed-out? Down and out with the February blahs? Beat it all by thinking sun, sand, surf and sail — like Patti Mara, a third-year human kinetics student, seen here relaxing during a stress remediation session in her biological basis of human stress laboratory. (See story, page 3.)

Photo by Marla Stewart. PRI







## Bridges to China

U of G's long-standing involvement in education and development in China is far from being a one-sided affair, says Prof. Archie MacKinnon, director of the Centre for International Programs. "The Chinese are not the only ones benefiting from the relationship," he says.

MacKinnon believes Guelph is being enriched by the association and that the program has been "invaluable in building up crucial relationships of a scholarly and personal kind... that make this a different place."

In addition, he says, "if Guelph is to be an international University, then it must have close and continuing associations with a country that has one-fifth of the world's population. If we don't do this, we are not a viable university."

A series of programs in place now and under negotiation for the future is enabling Guelph faculty to take part in identified areas of need in various Chinese provinces.

The Guelph/Beijing Co-operation Project with Beijing Agricultural University (BAU), officially begun in 1983, is "the lighthouse project for our involvement in China," says MacKinnon. The project concentrates on the areas of agrometeorology, animal and poultry science, veterinary pathology, microbiology and immunology and library information systems.

With support from the University, BAU is well on the way to having one of the first open

access libraries in the country. Chief librarian John Black has been to Beijing three times in the last three years as adviser on the physical design of BAU's library building and on the development of its staff and services. Guelph also played host to Beijing's chief librarian to familiarize him with the open access system.

Traditional Chinese libraries have closed stacks and limited access. The only other open access library Black knows of in China is in Shanghai. The existing facilities at BAU were built in the 1950s, but the move to a new building with a new system represents a major innovation, Black says.

Another area of change at BAU is in agrometeorology training. Until recently, such training was limited, says MacKinnon, but with Guelph's support, BAU is becoming the principal training field in agrometeorology in China.

Chinese faculty and graduate students have visited Guelph to observe teaching and research methods in agrometeorology. U of G faculty have travelled to China to lecture at BAU and participate in discussions with research groups outside the university.

Besides the Guelph/Beijing program, Guelph is also involved in the Black Dragon River Consortium, a co-operative project with two Alberta institutions — the University of Alberta and Olds Agricultural College. Now in its second year, the project is aimed at increasing the capacity of two colleges in China's north-eastern Heilongjiang province to train competent management and technical personnel for the province's state farm system.

Other projects that the Centre for International Programs hopes to negotiate within a year's time include the Guelph/Jilin Co-operation Project, aimed at strengthening institutional programs in crop, horticultural and food sciences through graduate training and short-term visits, and the Guelph/Nanjing Co-operation Project, intended for institutional strengthening in animal and poultry science, animal health, plant breeding and library information science through graduate student training and short-term visits.

"China is moving through a very crucial phase," says MacKinnon, "and within that process of change, universities are asked to take a lead role." For example, training in agriculture is important because China feeds one-fifth of the world's population on less than one hectare of land per person. Education and training are necessary to protect land from soil erosion, pollution and other environmental problems.

The magnitude of problems requires careful use of limited resources both in China and in Canada. In an attempt to use and develop resources more effectively, U of G is encouraging network co-operation among the various Chinese universities with which it is involved.

When Canadian faculty members go to China, they are shared among the network of institutions, travelling around the country and teaching the same course in various schools to maximize the time spent. "It's to build on the growing strengths we have now and on what's available in China," MacKinnon says.



Markus Luckwaldt and "Lester"

Photo by Owen Roberts, Office of Research.

## Walking the dog makes a better vet

Bright-eyed "Lester" may be a mere mongrel, but OVC students treat him like a blue-blooded champion. It's their way of saying thanks for the education.

"Lester" is one of OVC's seven "teaching dogs." Originally strays or abandoned animals recovered from pounds, they now serve the college by providing important hands-on training for veterinary students.

In return, the dogs get the royal treatment. "These animals are bathed, groomed, walked and played with more than many household pets," says Prof. Joanne Cockshutt, Clinical Studies, who is in charge of the animals' care. "We have waiting lists for people who want to adopt them. Considering they were once pound animals, I'd say they're doing quite well."

The dogs perform several duties during their weekly one- to two-hour laboratory visits. They're used to teach such techniques as performing a physical examination, collecting a urine sample, diagnosing lameness and handling and restraining an animal. The teaching dogs are big enough and have the proper temperament to be blood donors, and are therefore the sole contributors to OVC's canine blood bank, which is maintained for use during surgery and emergencies.

As well, students often refer to the teaching dogs for comparative purposes

—to understand what a healthy animal is supposed to look like.

"OVC's patients are here because they're ill, so students don't often get to examine a normal dog," says Cockshutt. "But when diagnosing something like an eye disorder, for example, it's important for students to be able to compare the patient with a teaching dog, so they'll know what to look for."

Cockshutt attributes much of the animals' emotional well-being to the efforts of the 19 students involved in OVC's "pre-vet dog-walking program." The volunteers, each assigned to a specific animal, individually spend about 30 minutes a day caring for their surrogate pets, walking them around the University's grounds and letting them run in the expansive paddocks behind the college. "They're learning animal care and welfare from the very foundation up," says Cockshutt.

Predictably, the parties get attached to each other. The teaching animals are in the program for two to three years at a time, and many of the students don't have pets of their own to nurture. They often take them home on "weekend passes."

"The teaching dogs are the ultimate instructional aids," says student co-ordinator Markus Luckwaldt. "This program is intended to show gratitude and respect for their contributions." O



A scene from *Smoke Damage*, the Department of Drama's opening production of the season at the Inner Stage. The play stars Fiona Jones, Shoshana Berman, Gina Giammarco, Mary Pat Monbourquette and Lynn O'Grady. It opens Feb. 22 and continues to Feb. 27. Curtain time is 8 p.m.

Photo by John Majorossy, Photographic Services

## Saints, sinners and sexologists

Three-year-old Suzuki violinists, Salvation Army captains and "Dr. Ruth" will all be strolling through the University campus this summer.

Through the Central Reservations and Conferences division, the University will play host to, among other groups, young virtuosos, saints in uniform and the annual Human Sexuality Conference.

Conference manager Nancy McPherson estimates that with more than 70 conferences planned between April and August, residence beds will be slept in about 35,000 times. "The revenue from these bed nights goes to help defray expenses for residences," she says, and that helps keep student residence fees low.

McPherson says the visitors fall into four main groups — athletic, church-related, academic, and government and social service agencies. The University provides a full range of services for all groups — whether it's an intimate group of 25 or a throng of 2,000 — including food services, residence accommodation and technical backup.

Another of the services the University provides for each group is a conference co-ordinator. A handful of Guelph students are hired full time for the summer to act as co-ordinators, making sure each group's stay is as pleasant and smooth-running as possible. "It's not a nine-to-five job," says McPherson. "The group can contact them 24 hours a day."

The hospitality efforts are obviously paying dividends, because about 75 per cent of the University's conference business is return business. "I think that speaks very highly of our efforts," she says.

Looking ahead to 1989, McPherson believes the University's 25th anniversary year will be a peak year in terms of attendance. May and June 1989 are already almost booked up. Many of the bookings are either campus-based or coming through faculty contacts.

In the future, McPherson sees hostel services becoming a growth area. Canadians like to travel, she says, and with motel bills ringing in at two or three times the price of hostels, the University can offer an affordable alternative to travellers on a tight budget. O



## Segal to address PSA

The University of Guelph Professional Staff Association's annual general meeting will feature Dr. Brian Segal, Guelph's president designate, speaking on "National Issues in Post-Secondary Education." The meeting is March 2 from 5 to 6:30 p.m. in Room 103, University Centre. Admission is free for PSA members, \$5 for non-members. Memberships can be purchased at the door.

## Media training workshop

Dealing with the media can be a challenging experience. It's not easy to relax in front of a camera or microphone, and some interviewers call for comments when you aren't prepared. To help make it easier, Personnel is offering a media training workshop March 8 for faculty and administrative personnel. Workshop leader Pat Adams has a background in journalism and broadcasting and has trained a variety of private and public sector spokespersons, including politicians. She developed the first videotaped media training course in Canada.

Faculty who attended a similar workshop last fall found it useful, says organizer Andrea Mudry Fawcett, Public Relations and Information. Prof. Bev Kay, Land Resource Science, says he appreciated the chance to "learn by doing." Prof. Bram Cadsby, Economics, says he now has "a much better idea of how a reporter thinks, and I feel more at ease in media situations." To register for the workshop, call Ext. 3059 or 6598.

## Youth in Performance

The Guelph Arts Council will present Youth in Performance, showcasing community talents in dance, music and theatre, March 5 at 8 p.m. in Ross Hall. Tickets are \$5 general, \$4 for seniors and students, and can be purchased at the Guelph Arts Council office, 10B Carden St., the Carden Street Music Shop, Sam the Record Man and the University Centre box office. For more information, call Barbara Conolly at 836-3280.

## Courses available

Openings still remain in some non-credit Continuing Education courses beginning during the next few weeks. "The Soviet Union Today" runs for six Wednesdays beginning Feb. 24; "Personal Income Tax Preparation" and "Research and Reading Skills Workshop Part I: Research Skills Workshop" are day-long courses Feb. 20; "Effective Leadership and Creative Problem Solving" runs Feb. 23 and 24; "Successful Selling and Image Strategies for Women" is a day-long course March 1; "Art for Amateurs and Connoisseurs" runs six Wednesdays beginning March 2; "Business Etiquette in the '80s" is a day-long course March 2; "International Woman's Day" is March 4 and "Herbaceous Plants" is March 5. For more information or to register, call Ext. 3956 or 3957.

## At Guelph

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Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items, speeches, faculty and staff activities, and other submissions are welcome. Editorial is seven days before date of issue unless otherwise specified.

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## Awards for seniors

The Ontario Ministry for Senior Citizens' Affairs plans to honor individual senior citizens with achievement awards this year. The awards presentation will be part of Senior Citizens' Month celebrations in June. Nominees must be 65 or older, residents of Ontario and have achieved significant goals and made an outstanding contribution to the province during their retirement years. Nomination forms are available from the Office for Senior Citizens' Affairs, 6th Floor, 76 College St., Queen's Park, Toronto, M7A 1N3, 416-965-5106. Deadline for nominations is April 15. For more information, call public relations officer Patricia Pothier, 416-965-0271.

## Osteoporosis study

The departments of Nutritional Sciences and Family Studies are seeking post-menopausal women to participate in a study on nutrition and osteoporosis. Participants must be willing to take all their meals at the University for two two-week periods during the spring or early summer. The meals will consist of nutritious and palatable foods. Assistance will be given with transportation, if necessary, and a stipend will be provided. The study is supported by the Osteoporosis Society of Canada. For more information, call Dr. Leonard Piche at Ext. 3750.

## Sculpture competition

Imperial Tobacco Ltd. is sponsoring another competition for the Macdonald Stewart Art Centre's Donald Forster Sculpture Park. The competition for a \$35,000 commission is open to artists who are Canadian citizens or have been landed immigrants for at least five years. Deadline for submission of resumes and slides is April 15. Artists who submitted to the 1987 competition are eligible. It is expected that the winning commission will be ready for installation in late 1988 or early 1989. For more information, call the art centre at 837-0010.

## Site and structure

The Macdonald Stewart Art Centre is hosting the exhibition "Site and Structure" until Feb. 21. The exhibition features the drawings and models of Tony Urquhart, winner of the 1985 Imperial Tobacco Ltd. National Sculpture Competition, and shows the evolution of Urquhart's ideas about spatial enclosure over a period of years. His new sculpture, "Magic Wood," now installed in the Donald Forster Sculpture Park, represents the culmination of his ideas on this subject.

## Engineering scholarships

North American Life's engineering scholarship program is taking applications for the 1988/89 academic year. Three scholarships of \$7,500 are awarded annually by the North American Life Assurance Co. of the Canadian Council of Professional Engineers. The program is open to any engineer who is a member of one of the constituent associations of the council. Scholarships are for full-time post-graduate studies at a recognized university. Application forms are available from North American Life Assurance Co., Special Products Division, 5650 Yonge St., North York M2M 4G4. Deadline for applications is May 1.

## Blockbusters

A highlight of China Week celebrations Feb. 17 to 23 will be a demonstration of qigong by master Hou Shu-Ying. Qigong is the 3,000-year-old art of using the body's internal energy to rejuvenate and heal. At the advanced level, qigong can release explosive force and help its practitioner withstand crushing weights or break strong objects such as huge rocks or heavy steel bars. The demonstration is Feb. 19 at noon in the University Centre courtyard. Other China Week events include a New Year's Day Variety Show Feb. 17 at noon in Peter Clark Hall and a New Year's Emporium and Food Fair Feb. 23 from 11 a.m. to 4 p.m. in the UC courtyard.

## Directed prayer

The Lent of Directed Prayer, a means of introducing people to praying with scripture, will run from Feb. 21 to March 26. Everyone is welcome to attend an introductory gathering Feb. 21 from 1 to 4 p.m. in Room 103, University Centre. Between Feb. 22 and March 26, participants will meet once a week with a director. For more information, contact any of the University chaplains in Room 151, Johnston Hall.

## Winter rabbit walk

Come out for The Arboretum's Sunday afternoon walk Feb. 21 to learn more about the winter life of rabbits. The walk leaves from The Arboretum Nature Centre at 2 p.m.

## People and pets

Researchers in the Department of Psychology are studying people and their pets. Eleven- and 12-year-old children with one dog, and 25- to 35-year-old adults with a dog or cat are needed to participate in this research, which involves talking about the relationship with the pet. For more information, call Susan Rosenstein or Prof. Linda Wood at Ext. 3591.

## UWO pianist performs

Pianist Arthur Rowe will perform in the Department of Music's Thursday noon-hour concert Feb. 25. His career as soloist and chamber musician has taken him to many North American and European cities. He is currently on faculty at the University of Western Ontario. Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "English Suite No. 1" in A Major, BWV 806 by Bach; "Six Aphorisms" by Alfred Fisher and "Sonatine" by Ravel. Program II at 1:10 will feature "Impromptus" Op. 142 D. 935 by Schubert and "Dance Suite" by Bartok.

## Wild bird clinic

OVC's one-day course Feb. 20 on the care and handling of injured wild birds is full, but is still open to media. Another clinic to accommodate those who could not attend will be arranged soon.

## Macbeth trip

A few tickets are still available to see *Macbeth* at the O'Keefe Centre with Glenda Jackson and Christopher Plummer, directed by Robin Phillips, March 16 at 8 p.m. The \$25 cost includes ticket and return bus transportation from Guelph. Money must be submitted to Allan Watts, Room 109, Massey Hall, Ext. 3148, by Feb. 18.

## Calcium Club

The Calcium Club hosts forums every Friday at 11:50 a.m. in Room 144, Pathology building. On Feb. 19, Barbara Kalow will give a progress report on "Lymphocyte Calcium Test for MH," and Janice Gray will discuss "Fluorometric Ca-ATPase Assay."

## Theatre in the Trees

The Arboretum presents *Key for Two* in dinner theatre Feb. 27. Buffet begins at 6 p.m.; the play begins at 8 p.m. This month's brunch dates for *Key for Two* are Feb. 21 and 28. Brunch begins at 12:30 p.m.; the play begins at 2:30 p.m. Tickets are \$25.50, and are available at the University Centre box office, Ext. 3940.

## Jane Siberry performs

The University Centre, the Central Student Association and the U of G Alumni Association present Jane Siberry March 19 at 8 p.m. in War Memorial Hall. Siberry, a 1979 Guelph graduate, is a singer, songwriter and poet. Tickets range from \$10 to \$14, and are available at the UC box office, The Corner in Stone Road Mall, the Bookshelf Cafe and Sam the Record Man.

## Owl prowls

A night stalker's owl prowls Feb. 20 at 7 p.m. will explore the behavior and ecology of owls that live in the Guelph area. Beginning at The Arboretum Centre, participants will car pool to owl hot spots. Admission is \$2. Register at Ext. 3932.

## Expressions '88

Expressions '88, a show and sale of Canadian fine art runs from March 18 to 20 in the University Centre. The show will feature framed and unframed art and sculpture, with the artists or their representatives in attendance. Exhibits will include artwork in oil, graphite acrylic, egg tempura, pen and ink, hand-painted photography, pastels, clay, ivory, bronze, stone, wood, scigraphs, lithography, intaglio and more. There will be a children's art exhibit in Room 103 of the centre. On March 19 and 20, also in Room 103, Blair Stewart of the Framing Experience will discuss how to conserve artwork at 1 p.m. and give a slide presentation on wall decor at 3 p.m. Admission to Expressions '88 is free. Show hours are 11 a.m. to 9 p.m. March 18, 10 a.m. to 6 p.m. March 19 and 11 a.m. to 5 p.m. March 20.

## Cajun/Creole Festival

The Whippitree is celebrating Louisiana Mardi Gras from Feb. 23 to 27. Tuesday is an all-you-can-eat buffet; from Wednesday to Saturday, Cajun and Creole dishes will be served. For more information, call Ext. 3500.

# Positions elsewhere

Notice of the following vacancies outside the University has been received by the Office of the President:

The University of Regina is seeking a vice-president, academic, and a vice-president, administrative services. Applications and inquiries should be directed to the Chair, Vice-Presidential Search Committee, the President's Office, University of Regina, Regina, Saskatchewan S4S 0A2, 306-584-4446. O

# Information meeting for London semester

Plans for U of G's 1989 London semester are already under way to offer students in their third or higher semester an opportunity to spend time abroad as part of their regular BA studies. The program is offered only in the winter semester and runs the same length of time as a regular semester at Guelph.

Interested students will have an opportunity to meet next year's London semester coordinator, Political Studies professor Bill Christian, at an information meeting Feb. 29 from 8 to 10 p.m. in Room 115 of the MacKinnon building. At the meeting will be two former London semester co-ordinators — Prof. Paul Mulholland, Drama, and Prof. Ted Hadwen, Sociology and Anthropology — as well as students who have participated in the program.

# Appointments

Adrian Fagan has been appointed department head in the administrative department of Physical Resources.

Mary Ann Robinson has been appointed publication co-ordinator, and Brian Lowry has been appointed supervisor of graphic design, both in Publication and Printing Services. O

Courses offered next year in London include "The Thatcher Revolution" (85-310) and "England in the 18th Century" (78-304), a study of late modern political theory, both taught by Christian. The semester will also offer credit courses in drama, art and music, taught by London professors.

The first deadline for applications is May 1. Late applications will be accepted for an Oct. 1 deadline, but most spots will be filled from the May 1 set of applicants. Christian says the final decision is made on the basis of several factors: students' transcripts, individual interviews and a one-page letter explaining why they wish to go and how they expect to benefit from the London semester.

Applicants who meet the May 1 deadline will be notified of their standing by the end of May; later applicants will be notified by the end of October.

Application forms are available in the Department of Political Studies office, Room 626, MacKinnon building, or from BA academic counsellor Nancy Clendenning in Room 052 of the MacKinnon building.

Interested students who cannot attend the meeting can arrange to see Christian Wednesday mornings in his office, Room 636 of the MacKinnon building, between 10:30 a.m. and noon. O



# Coming events

## WEDNESDAY, Feb. 17

CUSO - Information Table, 10:30 a.m. to 7:30 p.m., UC courtyard; Information Meeting, 7:30 p.m., UC 103.  
**Concert** - Dancemakers, noon, UC courtyard.  
**China Week** - New Year's Day Variety Show, noon, Peter Clark Hall.  
**Worship** - Ash Wednesday services — Roman Catholic Mass, 12:10 p.m., UC 442; Ecumenical Holy Communion, 12:10 p.m., UC Level 5.  
**Biochemistry Seminar** - "Microtubule Assembly Dynamics and the Cell," Bob Keates, 12:10 p.m., MacNaughton 222.  
**Botany Seminar** - "Regulation of Carbonic Anhydrase Expression," John Coleman, 3 p.m., Botany/Genetics/Zoology 117.  
**Public Forum** - "The Canada-U.S. Trade Agreement — What Does It Mean for Us?" Gordon Ritchie, 7:30 p.m., Peter Clark Hall.  
**Drama** - *The Importance of Being Earnest*, 8 p.m., War Memorial Hall, \$8.50 to \$11.50.  
**Basketball** - Vs. Brock, men's, 8 p.m., Athletics Centre.

## THURSDAY, Feb. 18

**Concert** - The Tudor Singers of Montreal, noon, MacKinnon 107.  
**Worship** - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.  
**African Students' Association** - "African Development and World Politics," Kwame Ture, 5 p.m., Botany/Genetics/Zoology 200, \$3.  
**Systematics Seminar Series** - "Co-evolution of Tachinidae (Diptera) and their Hosts," D.M. Wood, 3:10 p.m., Botany/Genetics/Zoology 259.

## FRIDAY, Feb. 19

**Schedule of Dates** - Last day for application to graduate at spring convocation.  
**Worship** - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.  
**Calcium Club** - "Lymphocyte Calcium Test for MH," Barbara Kalow; "Fluorometric Ca-ATPase Assay," Janice Gray, 11:50 a.m., Pathology 144.  
**Seminar** - "Black Fella Business and White Fella Business in North Australia," Jackie Wolfe, noon, MacKinnon 313.  
**China Week** - Qigong Demonstration, noon, UC courtyard.  
**Psychology Colloquium** - "The Perception of Multiple Objects: A Connectionist Approach," Mike Mozer, 12:15 p.m., MacKinnon 025.  
**Current Issues in Agriculture** - "Misguided Government Policies," Jim Romahn, 3:10 p.m., Crop Science 121.  
**Hockey** - Vs. Western, men's, 7:30 p.m., Memorial Gardens.  
**Lecture** - "Animal Rights and Survival of Native Peoples: Are They in Conflict?" Matthew Concom, 8 p.m., MacNaughton 105.

## SATURDAY, Feb. 20

**Continuing Education** - "Personal Income Tax Preparation"; "Research and Reading Skills Workshop, Part I," 9 a.m. to 4 p.m., register at 3956/7.  
**Worship** - Muslim Students' Association, Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
**Basketball** - Vs. Windsor, men's, 2 p.m.; women's, 4 p.m., Athletics Centre.  
**Arboretum** - "Night Stalker's Owl Prowl," 7 p.m., Arboretum Centre, register at Ext. 3932.

## SUNDAY, Feb. 21

**Brunch Theatre** - Theatre in the Trees, *Key for Two*, 12:30 p.m., The Arboretum Centre, \$25.50.  
**Sunday Afternoon Walk** - "Winter Wabbits," 2 p.m., Nature Centre.  
**International Cinema** - "Round Midnight" (France), 8 p.m., MacNaughton 105, \$2.

## MONDAY, Feb. 22

**Our World** - "Glasnost and the KGB," Fred Eidlitz, 12:10 p.m., UC 441.  
**Lecture** - "Characterization of Rat and Human Cytochrome P-450 Enzymes and Genes: Relationship to Metabolism of Xenobiotics," Peter Guengerich, 3:30 p.m., UC 442.

**Cnmtech '88** - "Personalities and Profits," 4 p.m., UC 103.  
**Worship** - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.  
**China Week** - New Year's Dance, 8 p.m., UC 103.  
**Drama** - *Smoke Damage*, 8 p.m., Inner Stage, \$3.50 and \$4.50, continues to Feb. 27.

## TUESDAY, Feb. 23

**Continuing Education** - "Effective Leadership and Creative Problem Solving," 9 a.m. to 4:30 p.m., continues Feb. 24, register at 3956/7.  
**China Week** - New Year's Emporium and Food Fair, 11 a.m. to 4 p.m., UC courtyard.  
**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.  
**Land Resource Science Seminar** - "Field-Scale Water Relations for an Eroded Piedmont Soil," Harold Van Es, 2:10 p.m., Land Resource Science 124.  
**Physics Colloquium** - Robert Laibowitz, IBM Research Centre, New York, 4 p.m., MacNaughton 113.

## WEDNESDAY, Feb. 24

**Worship** - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.  
**Botany Seminar** - "Plant Cell Growth," David Brumell, 3 p.m., Botany/Genetics/Zoology 117.  
**Continuing Education** - "The Soviet Union Today," six weeks, 7 p.m., register at 3956/7.

## THURSDAY, Feb. 25

**Pathology Seminar** - "Isoelectric Focusing of Alkaline Phosphatase in Equine Tissues and Sera," R. Ellison, 11:10 a.m., Pathology 220.  
**Worship** - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.  
**Concert** - Arthur Rowe, piano, 12:10 and 1:10 p.m., MacKinnon 107.  
**Systematics Seminar Series** - "Brands of Systematics," Norman Platnick, 3:10 p.m., Botany/Genetics/Zoology 259.  
**Lecture** - "Formation of Ethylene Dibromide/Glutathione/DNA Adducts and their Biological Relevance," Peter Guengerich, 3:30 p.m., UC 442.

## FRIDAY, Feb. 26

**Worship** - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.  
**Calcium Club** - "Isolation of Terminal Cisternae of Ca," Brian Brown; "Comparative Evaluation of Protein Assays," Peter O'Brien, 11:50 a.m., Pathology 144.  
**Engineering Design Competition** - Displays and Presentations, 5:30 to 10 p.m., Peter Clark Hall.

## SATURDAY, Feb. 27

**Engineering Design Competition** - Displays and Presentations, 9 a.m. to 3 p.m., Peter Clark Hall; "Striving for Excellence," Marc Garneau, 3:30 p.m., MacNaughton 105.  
**Art Exhibition** - "Thomas Moran's Yellowstone," Macdonald Stewart Art Centre, noon to 5 p.m., continues to April 10.  
**Worship** - Muslim Students' Association Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
**Dinner Theatre** - Theatre in the Trees, *Key for Two*, 6 p.m., The Arboretum Centre, \$25.50.

## SUNDAY, Feb. 28

**Worship** - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 10:30 a.m., UC 103.  
**Brunch Theatre** - Theatre in the Trees, *Key for Two*, 12:30 p.m., The Arboretum Centre, \$25.50.  
**Arboretum** - Sunday Afternoon Walk, "Winter Fungi," 2 p.m., Arboretum Nature Centre.  
**International Cinema** - "Story of Adele H." (West Germany), 8 p.m., MacNaughton 105, \$2.

## MONDAY, Feb. 29

**Our World** - "Meares Island Update," Dale Hamilton, 12:10 p.m., UC 441.  
**Worship** - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.  
**Music Lecture Series** - "Leitmotiv in Glinka," Mary Woodside, 4:15 p.m., MacKinnon 107.  
**Information Meeting** - London Semester, 8 p.m., MacKinnon 115.

## TUESDAY, March 1

**Art Exhibit** - "Mind and Medium," Moyez Alidina, Faculty Club, UC Level 5, continues to March 30.  
**Continuing Education** - "Successful Selling and Image Strategies for Women," 9 a.m. to 4:30 p.m., register at 3956/7.  
**Instructional Development Workshop** - "VITAL Modules and Students' Learning," Frans Schryer, noon, Blackwood Hall 211.  
**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.

**Physics Seminar** - "New Methods of Dating in Prehistoric Archeology," Henry Schwarcz, 4 p.m., MacNaughton 113.  
**Comintech '88** - "New Venture Formation: Building a Growth Company," 4 p.m., UC 441.

## WEDNESDAY, March 2

**Continuing Education** - "Business Etiquette in the '80s," 9 a.m. to 4:30 p.m.; "Art for Amateurs and Connoisseurs," six weeks, 7:30 p.m., register at 3956/7.  
**Worship** - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.  
**Biochemistry Seminar** - "Oxidation of Drugs to Reactive Metabolites as a Possible Mechanism of Adverse Drug Reactions," Jack Utrecht, 12:10 p.m., MacNaughton 222.  
**Botany Seminar** - "The Genus *Halophila* — Flowering Angiosperms 20 Fathoms under the Sea," Usher Posluszny, 3 p.m., Botany/Genetics/Zoology 117.  
**Professional Staff Association** - Annual General Meeting, guest speaker Brian Segal on "National Issues in Post-Secondary Education," 5 p.m., UC 103, members free, non-members \$5.

# Stressed out?

## Relaxation clinic to operate full time

by Marla Stewart

If a Florida vacation hiccup is out of the question when family problems or job stresses begin to take their toll, it's time to chase the stress away by learning to relax.

The School of Human Biology offers classes for stress remediation and high performance in its Relaxation and Biofeedback Clinic. The winter session is now under way, teaching participants lifetime stress coping skills.

Prof. Evelyn Bird, Human Biology, who leads the clinic, says the purpose of the sessions is "to learn how to relax so that we can cope with stress and reach our optimal performance." The sessions teach relaxation techniques that increase self-awareness so participants can become aware of their daily stress responses and learn how stress is triggered. All the techniques are North American, rather than the Eastern style of relaxation through yoga or meditation.

All participants begin the course by lying on mats and concentrating on relaxing. As they get better at it, says Bird, they will be able to put their relaxation skills to work while sitting, standing or even working.

The first relaxation skill taught by Bird is proper breathing. "Under stress, we often change our breathing patterns," she says. Stressed people need more abdominal breathing to help the mind and body slow down and become calm.

After teaching proper breathing skills, Bird moves on to a series of six different relaxation techniques. These include progressive muscle relaxation and visualization — a process of mentally rehearsing successful coping behaviors or using relaxing mental imagery, such as a

warm beach, fluffy clouds and water lapping on the shore.

Not all participants Bird sees in the clinic have high stress levels. Some come because they want to reach their optimum performance levels.

Bird's data indicate that between 30 and 40 per cent of participants come out of the clinic with increased self-confidence, and about 75 per cent have greater feelings of well-being. Even those who came in feeling fine, she says, "go out feeling super."

People are not always aware of tension in their lives, says Bird. Often they believe it is "a necessary evil that you have to put up with." Even the tension in a furrowed brow wastes energy and can be eliminated by using the proper techniques, she says.

Improved concentration and productivity, increased confidence and happiness, and faster reaction time are a few of the benefits of stress control.

Beginning in September, the Relaxation and Biofeedback Clinic will operate full time. "There's so much need for it," says Bird. "We're gearing up and we'll be able to help a lot more people." She says the clinic is unique in Canada because other clinics simply research stress and relaxation and do not see the public on a fee-for-service basis for therapy.

Bird believes group relaxation classes are the most cost-effective means of reducing stress. Education and treatment can help reduce medical costs, she says, citing recent U.S. research that indicates for every dollar spent for relaxation/biofeedback, between five and seven dollars are saved in medical costs. O

# Books



During a recent Canadian visit, the chief of the Clan MacLennan, Ronald MacLennan, presented a copy of his book, *The History of the Clan MacLennan*, to the library as an addition

to the Scottish Collection. Shown above with chief librarian John Black, centre, are Douglas MacLennan of Fergus, left, and chief Ronald.

Photo by Herb Rauscher, Photographic Services.



## Manguel visiting

Alberto Manguel, author, anthologist, broadcaster, reviewer and lecturer, is a short-term visitor in the Department of English Language and Literature. While here, he will give a number of lectures and symposia, and will be available for consultation.

Manguel will give two lectures on "The Facts of Fiction." The first lecture, Feb. 17 at noon in Room 237, MacKinnon building, will focus on the responsibilities of fiction and its place in the formation of our understanding of places and cultures.

The second lecture, Feb. 24 at noon in Room 441, University Centre, will deal with the effects of the visions of fiction on later writers such as Garcia Marquez and contemporary Canadian writers.

Manguel was born in Buenos Aires, Argentina, in 1948. Since leaving Argentina, he lived in Paris and London before coming to Canada in 1982. He is chief fiction reviewer for *Saturday Night* magazine, and has recently been national theatre critic for CBC Radio's "State of the Arts," book editor for "The Journal," book critic for "Morningside," and theatre critic for "CLB Morning."

Manguel's special areas of literary interest are fantasy and South American literature. He has assembled and edited numerous anthologies and has also had a number of plays produced on CBC Radio.

For more details, call Prof. Peter Brigg, Ext. 3262. ○



Fifteen University employees who have completed 25 years of service were honored at a luncheon and presentation hosted by President Burt Matthews last November. They also received commemorative certificates and pins indicating the University's appreciation for a quarter century of service. Seated, front row, left to right: Dirk Tel, technician, Land Resource Science; Thomas Ashby, technician, Nutritional Sciences; Matthews; and Prof. David Elrick, Land Resource Science. Back row, left to right: John Weatherston, driver, Structural Shop; John Gilmour, chief agricultural assistant,

Animal and Poultry Science; Edward Eaton, technician, Pathology; Richard Hill, foreman, Grounds; Prof. Victor Chanasyk, Landscape Architecture; Arnold Holmes, registrar; Prof. Charles Elliott, Chemistry and Biochemistry; and Prof. Gordon Graham, Physics. Unable to attend were Prof. Gordon Bowman, Animal and Poultry Science; Prof. Cyriel Duitschaever, Food Science; Helen Klemencic, secretary, Animal and Poultry Science; and Gwen Ritcey, technician, Environmental Biology.

Photo by Marla Stewart, PRI

## Job opportunities

As of *At Guelph* deadline Feb. 12, 1988, the following opportunities were available:

**Head, Maintenance Department.** Salary commensurate with qualifications and experience.

**Budget Analyst, Budget Office.** Salary range: \$28,686 minimum; \$35,857 midpoint; \$34,028 maximum. Normal hiring range: \$28,686 to \$33,706.

**Agricultural Mechanic, Research Station Services, OAC.** Salary range: \$448.24 minimum; \$490.88 job rate (level 5); \$591.85 maximum (has been pro-rated to 40 hour week).

*The following positions were available to on-campus employees only:*

**Library Assistant, Building Surveillance, Library.** Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

**Pharmacy Assistant, Veterinary Teaching Hospital.** Salary range: \$333.04 minimum; \$363.25 job rate (level 5); \$436.76 maximum.

**Program Planner** (formerly Co-ordinator, Resource Area), Counselling and Student Resource Centre. Salary range: \$24,123 minimum; \$30,154 midpoint; \$36,185 maximum. Normal hiring range: \$24,123 to \$28,345 (currently under review).

**Xerox Operator, Publication and Printing Services.** Salary range: \$276.64 minimum; \$320.83 job rate (level 5); \$385.08 maximum.

**Porter, Department of Residences** (south and east area). Job rate: \$10.52 per hour; probation rate: \$.20 per hour lower than job rate.

**Custodian 3, Housekeeping Department.** Job rate: \$10.75 per hour; probation rate: \$.20 per hour lower than job rate.

Postage paid in cash at first-class rates, Permit 1149, Guelph, Ontario, N1G 2W1.

## Obituary

Josef Weiss

The University community extends sympathy to the family of Joseph Weiss, who died Feb. 12.

Mr. Weiss joined the University in 1971 and was a custodian in the Housekeeping Department.

He is survived by his wife, Margaret, and three children: Margaret, Lynn and Sofia, all of Guelph. ○

## Personals

**For Sale:** Pioneer three-motor, three-head, reel-to-reel tape deck, Andre, Ext. 8347 or 856-9377 evenings. XT clone computer, 350-megabyte hard disk drive, two floppy drives, amber monitor, Roland 1012 printer, software, general Datacom modem, Mike, 763-7974 after 6 p.m.

**For Rent:** Furnished room for female student, light cooking facilities, walking distance to University, Ext. 2965 or 821-5502 after 5 p.m. Two-bedroom cottage and cabin at Sauble Beach, woody area, three-minute walk to beach, available May to September, 821-5962 after 5 p.m.



UNIVERSITY  
of GUELPH

# At Guelph

Volume 32 Number 8

February 24, 1988



## Inside:

Liaison program reaps returns .....	1
Farewell to tall tales .....	1
New banners for agriculture programs .....	2
Research reports .....	4

## Cover:

There are no ruffled feathers here as a duck plays patient at the OVC Wild Bird Clinic held Feb. 20. The course, filled to capacity with 103 people, was held in conjunction with the World Wildlife Fund (Canada).

Photo by Herb Rauscher, Photographic Services







## Record jump in high school applications

Ontario secondary school applications to the University of Guelph for fall semester 1988 are up almost 29 per cent over last year, according to preliminary figures released Feb. 17 by the Ontario Universities' Application Centre.

Guelph received 9,448 applications from high school students, an increase of 2,114 over 1987. Numerically, that's the highest increase in applications across the Ontario university system, according to OUAC.

Guelph also saw a big increase in the number of students selecting the University as their first choice — 574 more than last year, an increase of 23.8 per cent.

System-wide, applications to Ontario universities are up an average of 10.8 per cent over last year. This record increase stems from two sources — introduction of the Ontario Schools Intermediate and Senior (OSIS) program, which allows students to complete high school in four years instead of five, and a recent increase in the number of students who are completing high school and choosing to go on to university.

Keith Alinick, associate registrar, admissions, says the much-larger-than-average growth in Guelph applications is due to "a lot of hard work by a lot of people," including liaison staff, faculty and administration.

"We've really increased our presence in the high school system over the past year," he says. "We made close to 300 individual visits to high

schools in 1987, compared to 100 the previous year."

Alinick says his office is "very happy" with the application figures, but "we still have room to grow. There is a lot of potential to tap. There are many people who don't know what the University has to offer, and we will continue developing our liaison program in the coming year in an effort to further increase awareness and understanding of the University."

The system-wide increase in university applications, coming on top of last year's increase of 6.4 per cent, has universities and students alike concerned about the availability of places, says Associate Vice-President, Academic, Ernest Dalrymple-Alford. Like other universities across the province, Guelph plans to do what it can to meet the increased demand for places, he says, but it just doesn't have the room to accommodate many more students this fall.

"The fall 1987 enrolment stretched our resources to the limit in terms of classroom space, faculty and residence," he says. "It's hard to see how we could take more students."

The provincial government expects universities to absorb as many students as they can, he says, "but you have to balance that with a concern about what you can do for the students when you let them in. There's a limit to which you can pump in more and more students."

Because of the huge increase in applications,

Guelph will have to be more selective in its choice of students this year, says Dalrymple-Alford. "If you have many more students than you can take, you are obliged to take in a larger proportion of better students. What else should you do?"

Last fall, total full-time undergraduate enrolment at Guelph was 9,888, up 28 from the

previous year. Part-time enrolment was up 107 at 1,535. And a total of 2,884 students was enrolled in Semester 1, an increase of 77 over 1986. The increases in enrolment and applications are not uniform across all colleges and programs. In recent years, OVC has deliberately cut back on its enrolment and OAC's student numbers have steadily declined. ○

## Students wanted for Senate, Board of Governors

Student positions on Senate and Board of Governors are open for the 1988/89 sessions.

Senate is the highest academic decision-making body at the University. Board of Governors has overall responsibility for the government, management and control of the University, with the exception of duties assigned to Senate. The board is concerned with the property, revenues, expenditures and business affairs of the University.

Twenty-three undergraduate and eight graduate student seats are available for the Senate term, which runs Sept. 1 to Aug. 31. Two student representatives will be elected to Board of Governors for a term running from July 1 to June 30.

Any full- or part-time undergraduate (including associate diploma) or graduate student is eligible to stand for election for Senate. Only

full-time students are eligible for election to Board of Governors.

Elected students must continue to be registered as full- or part-time for at least two of the three semesters during their tenure of office in Senate, and as full-time for two of three semesters during their tenure of office for Board of Governors.

Nomination forms for both bodies are available from the Office of the Secretariat, Level 4, University Centre, Ext. 6759, and the offices of all college deans. Senate nomination forms are also available at the Connection Desk, Level 3, University Centre.

All nomination forms must be submitted to the Secretariat's Office by 4 p.m. March 4. Elections will take place March 22 in the University Centre courtyard. ○

## Ritchie debunks 'tall tales' about free trade

by Maria Stewart

Canada's deputy chief trade negotiator wants Canadians to bid farewell to "tall tales" about free trade.

In a public forum Feb. 17, Gordon Ritchie addressed what he perceives to be 12 misunderstandings many people have about the free trade deal, and then answered questions from the audience and a six-member panel. Although Simon Reisman is Canada's chief trade negotiator, Ritchie was responsible for doing much of the preparation, negotiation and implementation of the document.

It is amazing that something so straightforward as this deal could generate such wide and differing opinions, he said, as he began his attack on the 12 tall tales.

Among the myths Ritchie attempted to dispel was the belief that the elimination of tariffs will mean an exodus of branch plants from Canada. "If there were branch plants that were going to leave, they'd have left by now," he said.

Ritchie went on to discount the belief that the deal succeeds in opening up the American procurement market. The deal does not open up that three-quarter-of-a-trillion-dollar market, he said.

Ritchie also said the deal has not scrapped the auto pact, that Canada has not abandoned the General Agreement on Tariffs and Trade, that our cultural industries are still protected, that new investment will still be welcomed freely, that supply management programs protecting our farmers have not been eliminated, and that we have not sold out Canada's energy birthright by agreeing not to force prices higher in the United States in the event of an energy shortage.

Ritchie tried to play down the dangers of a binding dispute settlement — a mechanism many Canadians fear — by saying the deal calls for a binational impartial panel that will rule definitively on trade disputes.

The fear that hundreds of thousands of Canadians will lose their jobs because of the deal is also unjustified, he said. "The deal will not solve all of Canada's economic problems,

but it won't cost jobs." A number of Canadians will have to change jobs because of the agreement, he admitted, but no jobs will be lost. "It will be like playing musical chairs when they are adding chairs," he said.

Ritchie also assured the audience that the deal was not done in secret, nor is it a "fait accompli." For the deal to come into effect, it

has to be enacted into law by both the Canadian and American legislatures.

He also said there are a number of things the deal won't touch. It will have no effect on pornography, gun control or social programs such as hospitalization insurance.

Some of the chief concerns addressed by the audience focused on environmental issues.

Several questions pertained to issues such as environmental restrictions, acid rain, food irradiation, oil and gas exploration in the north, the pipeline across the Yukon and plutonium — a radioactive chemical — flying over the Arctic. Ritchie said the deal does not mean Canada would relax its environmental protection laws. ○



Deputy chief negotiator Gordon Ritchie, centre, with, left to right, economics student Johanne Doucet; Ron Moses, president of the Guelph Chamber of Commerce; Prof. Bram Cadsby, Department of Economics; and Prof. Mark Waldron, director of the University School of Continuing Education.

Photo by John Majorosky, Photographic Services



# Report on Senate

## THE PATCHWORK QUILT

### New design sought for undergraduate programs in agriculture

Can turf and territory anxieties be set aside so U of G can redesign undergraduate programs that will attract secondary school students to agriculture?

That's the heart of the matter put to Senate by the Committee on University Planning (CUP) last week in a broad-ranging and generally positive exploration of issues arising out of *The Report of the Task Force on Agriculture* (See *At Guelph*, July 9, 1987). CUP will consider the report at a one-day retreat Feb. 25 and establish a set of motions that are expected to be brought to Senate in June.

CUP has already taken action on the task force's recommendations relating to the diploma program and the engineering program, but it wanted a discussion in Senate specifically directed towards the recommendations dealing with undergraduate programs, in the hopes of gaining some new insights.

The recommendations on undergraduate education are the most contentious, said the committee's chair, Prof. Bev Kay, Land Resource Science, and they have significant implications across a number of colleges, degree programs and program committees.

The task force on agriculture wants the B.Sc.(Agr.) program redesigned and new degrees developed for a package of programs that have a focus on environmental management, business and management, food and nutrition, and rural and development studies. It also says the University should hire a professional survey group to test market the proposed packages of majors so that they appeal to secondary school students, and that the proposed new degree designations also be test marketed to potential employers.

The task force also wants program committees who design the courses of studies to leave room for courses in career development and preparation for employment — such as an internship semester. And it says a more flexible system of

course requirements and a higher degree of counselling is required.

CUP says the task force begins with the concept that agriculture is more than just the production of food and fibre. It is also environmental management, business and management, food and nutrition, and rural development — all areas where the University has strengths and existing undergraduate majors. But many of these majors lie outside of agriculture and the B.Sc.(Agr.) program, and relate not only to agriculture.

The challenge facing the University, says CUP, is to structure programs in a way that high school students with interests in areas that span colleges and degrees and program committees are informed of the opportunities open to them, and that students pursuing studies in these areas have access to the best possible educational experience that the University can offer.

CUP says there are a number of ways to do this, ranging from simply altering liaison programs to introducing major changes in degree programs and program committees. The task force recommends the introduction of new degrees; CUP suggests an alternative might be to reduce the number of degrees currently offered.

Kay asked senators to picture the University's academic structure as a monolithic structure of seven marble columns (each representing a college). Draped over each is a patchwork quilt of degree programs. Sometimes a single quilt is draped over a single college; in other cases, a single quilt spans several colleges.

"The patches in the quilts are our majors," he said. "And if you look carefully at all these patches, you will see that some patches are actually similar and some of them are the same in several quilts. When you look at these patches, you have to raise the fundamental question — Is our present structure designed to ensure that the academic programs in each

group is as strong as possible, and are we able to portray to high schools students in a coherent way the strengths that we have in that area?"

OAC Dean Freeman McEwen, who chaired the task force on agriculture, outlined some of the problems — declining applications in undergraduate programs that emphasize agriculture, lowered acceptance stands, a gloomy financial situation in primary agriculture production and a similar pattern of enrolment decline in colleges of agriculture in the United States and elsewhere.

But McEwen said not all colleges of agriculture are experiencing enrolment declines. Those that have broadened their programs to include more than primary agriculture are thriving, he said.

Agriculture needs broadly educated graduates who have a holistic approach to issues and who are also specialists in food production and processing, marketing, retailing and nutrition and health, said McEwen. The University must adjust its programs to meet the needs of agriculture in its broadest context, and then make them known in such a way that secondary school students will see the excitement in the offerings and the potential for interesting and useful careers, he said.

McEwen argued that Guelph cannot continue to market its programs under the traditional "agriculture" banner, because this doesn't appeal the way it did years ago. "We must present programs that relate to the bigger issues in agriculture, and we must attract a larger pool of applicants so we can improve the calibre of our undergraduate students."

Prof. Sandy Warley, Agricultural Economics and Business, urged CUP to be bold. He said the committee should question the roles of the colleges and should not be afraid to bring forward radical changes in June.

CBS Dean Bruce Sells encouraged CUP to go back to the colleges to get more of a feel for

what could be done. He said there is a fear that some programs will be upgraded, which might weaken already existing ones.

Several senators asked about the status of the Task Force on "Rural Resources," whose recommendations are expected to have some bearing on decisions arising out of the task force on agriculture. The rural resources report is expected to be submitted to CUP within a month, said Kay.

Senators noted that the University does have quality programs in areas related to agriculture, and they said they were confident that once students got here, that quality would keep them here.

"We know Guelph has tremendous programs, but we don't market them as such," said McEwen. "We don't use the words that turn high school students on to the opportunities in agriculture."

A new Senate member, Prof. John Thompson, chair of Horticultural Science, said the declining undergraduate enrolment in agriculture is largely a problem of perception. Agriculture is a burgeoning business, he said, and there are far more jobs than graduates to fill them.

Prof. David Douglas, chair of the University School of Rural Planning and Development, said the task force on agriculture has posed a challenge to test our metal when it comes time to cut across turf and territory. He said courage and goodwill will be required among faculty to step across the traditional boundaries and make something new work.

Zoology professor Keith Ronald, director of The Arboretum, cautioned against "flying a marketing banner." The University's banner must be a quality one, he said.

Prof. Donna Lero, Family Studies, said the task force has shown a willingness to look beyond the University's present structure, and it has provided an opportunity for the University as a whole to look at issues more broadly. O

## Senate summary

In other CUP business, Senate approved a name change for the University School of Part-Time Studies and Continuing Education to the University School of Continuing Education. The new name replaces an unwieldy title that no longer reflects the range of programs now offered by the school.

In Board of Undergraduate Studies business, Senate approved a minor in neuroscience in the honors biological science program. BUGS chair Prof. Steve Scadding, Zoology, said courses for

the program already exist in departments over four colleges — OVC, CBS, CPS and CSS — and the minor would be a focus to draw together these strengths.

Senate also received for information the 1987/88 membership of the general studies program committee, chaired by Prof. Mark Waldron.

In Board of Graduate Studies (BGS) business, Senate received for information a report on additions to graduate and associated graduate faculty as follows:

*Graduate faculty* — Andrew Gordon, Environmental Biology, and Steven Rothstein, Molecular Biology and Genetics;

*Provisional graduate faculty* — Douglas Goff, Food Science, and Peter O'Brien, Pathology;

*Temporary graduate faculty* — C. Kerrigan, Canada Research Fellow/History;

*Associated graduate faculty* — U. Borgmann, Department of Fisheries and Oceans, Burlington/ Zoology; J. Culley, Agriculture Canada/Land Resource Science; and J. Holme, Griffith Laboratories, Scarborough/Food Science.

Senate also approved changes for the 1988/89 *Graduate Calendar* relating to supervisory committees and thesis procedures. BGS chair Prof. Gil Stelter, History, said graduate students, who each have a supervisor, will now also have a supervisory committee made up of at least two graduate faculty members. The thesis procedure has been clarified to make the distinction between the roles of the supervisory committee and the examination committee.

BGS also endorsed a new M.Sc. field in the pathology graduate program: pathology of aquatic animals. The program must now go to the Ontario Council on Graduate Studies for standard appraisal.

The question of Committee on University Planning (CUP) composition was settled in a two-thirds majority vote. CUP membership will now include the chancellor, president, vice-president, academic, vice-president, administration, and 13 Senate members appointed by Senate, four of whom may be ex-officio members of Senate, one graduate student senator and two undergraduate student senators.

Senate appointees cannot, at the same time, be members of the group appointed annually by

the president to develop a strategic planning discussion paper. The chair will be elected by the committee from among the Senate members for a two-year renewable term. All deans may attend and speak at committee meetings and receive agenda material and minutes.

Senate also approved amendments to bylaws concerning the responsibility of the executive committee; changes to the terms of reference of the Committee on Educational Development; the addition of a representative of the undergraduate information technology committee to the Senate Committee for Information Technology; and a change to Senate's composition to include a University of Guelph Faculty Association representative with voting privileges.

Six new awards received Senate approval:

*The Joseph Arlen Memorial Award in Horticulture* — an annual undergraduate award of \$500, tenable with other Senate awards, to a student majoring in horticultural science who has the highest proficiency in courses in fruit production at graduation. Application is not necessary. The selection will be made by the OAC awards committee on the recommendation of the Department of Horticultural Science. The donor is Judy Arlen;

*Harvey W. Caldwell Fellowship* — an annual graduate award of \$1,500, tenable with other Senate awards, except the Williams and Grothier Fellowships, to a student who has completed at least two semesters with high academic standing. Preference will be given to a student who has demonstrated interest in the practice of rural extension in Canada. Application is to the chair of the Department of Rural Extension Studies by June 1; the OAC awards committee will make the selection. The donors are faculty in the Department of Rural Extension Studies;

*Kenneth G. Murray Scholarship* — an annual undergraduate award of \$1,000, tenable with other Senate awards, to the student with the highest cumulative average on completion of 20 semester courses or equivalent (Semester 4) majoring in agricultural business, agricultural economics, animal and poultry science, applied microbiology, dairy science and technology or food science. The student must be registered in the co-operative education program and must have received a satisfactory grade on the pre-

vious work report. If all other things are equal, preference will be given to a son or daughter of an employee of J.M. Schneider, Inc. Application is not necessary; selection will be made by the OAC awards committee. The donor is J. M. Schneider Inc.;

*David Rendall Memorial Award* — an annual undergraduate award of \$250 from 1988 to 1992 inclusive and tenable with other Senate awards to a graduate of the associate diploma in agriculture program or the B.Sc.(Agr.) degree program who has a minimum graduation average of 'B'. Athletic achievement as an intercollegiate player, intramural participant or an executive member of a student athletics organization will be considered. Application is to the assistant registrar, awards, by April 1, and the OAC awards committee will make the selection. The donor is United Co-operatives of Ontario;

*Barkley's of Avonmore Scholarships* — Annual awards up to \$1,200, tenable with other Senate awards, to students in the B.Sc.(Agr.) program who have a minimum of 'B' standing and who are enrolled in the minor in international agriculture or are from a developing country and in Canada on a student visa. The OAC awards committee will make the selection and decide the number and value of the awards on an annual basis. The donor is Fred Barkley; and

*J.M. Bell Classics Scholarship* — An annual award of \$500 to a student continuing in an honors program in classics with the highest average (80 per cent or above) in eight classics courses beyond the 100 level. The award may only be held once. The selection committee comprises members of the classics section in consultation with the chair of the Department of Languages and Literatures. The donor is the J.M. Bell Memorial Fund. O

## Correction

In the Feb. 10 issue of *At Guelph*, the caption accompanying the photo of Guelph MP Bill Winegard presenting a cheque to Third Age Learning — Guelph incorrectly identified TAL president Ross Pauli as assistant treasurer Neil Sullivan. O

### At Guelph

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# Macdonald Stewart Art Centre plans special exhibitions

A glimpse into the Macdonald Stewart Art Centre's collection of artworks is like a walk through Canadian history. With more than 3,000 pieces of art valued at \$5 million, the collection, which also includes international art, focuses on three centuries of Canadian work.

The art centre hosts "one of the more important university collections in Canada," says director Judith Nasby. "And the special exhibitions offered this year will be no disappointment to gallery enthusiasts." The centre will display 20 exhibitions throughout the year.

"Putting It Back Together," an exhibit beginning May 21, the opening weekend of the Guelph Spring Festival, will consider Canada's performing arts heritage and how it is preserved. The show will draw on eight performing arts archives and will include costumes, props, set designs, printed material, manuscripts, video and computer components.

Organized by Stratford Festival archivist Dan Ladell and Prof. Len Conolly, chair of the Department of Drama, the show will include material from the University's theatre archives, the Stratford Festival, the Shaw Festival, the Metro Toronto library, the National Ballet of Canada and the Canadian Opera Company.

The point of the exhibition is to reveal the nature and purpose of archival records, says Nasby. "You can't re-create a period production unless you know what the original production was like."

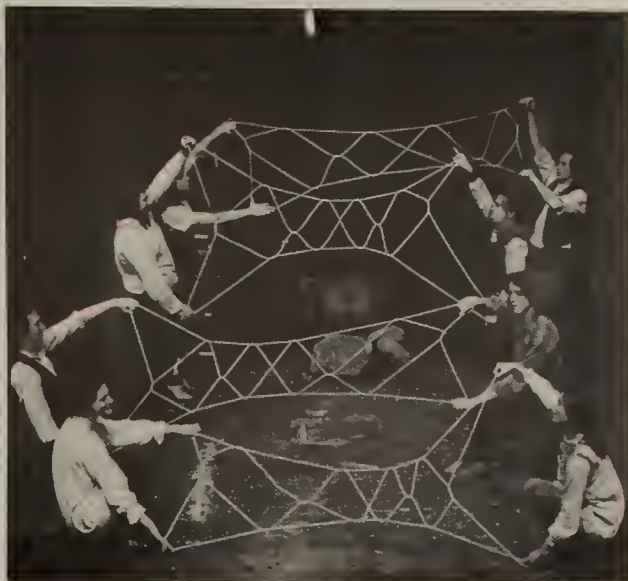
The exhibition will attempt to show the public how a director would reconstruct a historical production by studying props, costume sketches, scores, prompt books and so on. In addition, it will show how technology is creating new forms of documentation, enabling future scholars and historians to interpret Canada's theatrical heritage.

During Alumni Weekend June 17 to 19, the art centre will open an exhibition featuring 42 works by young contemporary Canadian artists. All of the works that will be on display have been purchased with the interest earned on a trust fund established by Fred Jerome, a retired Guelph professor of genetics and poultry science. He established the fund in 1968 to sponsor the purchase of art by young Canadian artists.

To coincide with the University's 25th anniversary in 1989, the art centre is organizing an exhibition featuring graduates of the Department of Fine Art. "It will cover a 25-year period, including representative work by students who are currently in the course," says Nasby. The exhibit, containing works by about 35 artists, will be "a fascinating gathering of contemporary art and an excellent cross-section of the graduates," she says.

The art centre opened in 1980 and was established through a provincial act by its four sponsors: the University, the City of Guelph, the County of Wellington and the Wellington County Board of Education.

In addition to the selections exhibited in the art centre gallery, art from the University's collection also enhances buildings and grounds around campus. The centre's community programming includes children's art classes, school tours, group visits and receptions. There is also a gallery shop and art rental service operated by art centre volunteers. O



A scene from the 1973 production of *Sticks and Stones* by James Reaney, performed at the Tarragon Theatre. The photograph is from the University's theatre archives and will be

included in the "Putting It Back Together" exhibit at the Macdonald Stewart Art Centre beginning May 21.

## International children's art on view at Faculty Club



Kajal Islam,  
"Fetching Water,"  
Bangladesh.

by Julia Gualtierie,  
Exhibit co-ordinator

A unique collection of art by children from around the world is on display in the Faculty Club until March 1. It is part of a vast collection of children's art and creative writing called "All About Us/Nous Autres," which was acquired by the University in 1981.

The collection includes more than 5,000 paintings and 100,000 poems, stories and essays, collected over nine years by the founder and co-ordinator of the now-defunct "All About Us" non-profit cultural foundation, Dr. Betty Nickerson, a sociologist and writer.

Although the initial mandate of the Ottawa-based organization was to recognize and encourage the creative abilities of young Canadians aged six to 18, the collection also includes hundreds of paintings by children from 32 Commonwealth countries.

It is from this international collection that the Faculty Club exhibition is selected. Entitled "My Village — Selections from the 'All About Us' Collection," the exhibit contains nearly 30 paintings by children aged five to 16 from Bangladesh, Botswana, Kenya, Malawi, Tanzania, Mauritius, Guyana, Jamaica, Trinidad, Singapore and Hong Kong.

The selections focus on daily village life and cultural festivities and rituals, recurring themes throughout the entire international collection. Interesting to note is the relative infrequency of

pure landscape compared to the art by Canadian children. It is the anecdotal quality of the villagers' lives that stands out in the international art.

The exhibition explores not only a cross-section of ages, talent and cultures, but also demonstrates the exceptional artistic quality and creative ability of these young artists.

The highlight of the exhibition and the collection as a whole is the works from Bangladesh, which are outstanding for their color, details and sophistication. Of particular note are the paintings by Tarjeena Kabir, 12, and Kajal Islam, 16, who are remarkable not only for their artistic talent, but for their expression of highly developed individual styles at such young ages.

Above all, what unifies these paintings by children from different cultural backgrounds is the intensity and insight with which they have expressed themselves and their daily lives.

"My Village" marks the 10th anniversary of the international Commonwealth collection. The paintings were commissioned in 1978 for the "Young Artists of the Commonwealth" exhibition hosted by "All About Us" for the Commonwealth Games' cultural program held in Edmonton.

Since arriving at the University, various sections of the collection have been exhibited on campus, at the Guelph Public Library and in a large exhibition at the National Library in Ottawa for International Youth Year in 1985. O

## Visiting Professor

Richard Wollheim, emeritus Grote professor of the philosophy of mind and logic at the University of London, will visit in the Department of Philosophy from March 7 to 26 as the 1988 Winegard Visiting Professor.

Wollheim was head of the department of philosophy at University College, London, from 1963 to 1985, a professor of philosophy at Columbia University, New York, from 1982 to 1985, and Mills professor of intellectual and moral philosophy at the University of California, Berkeley, from 1985 to 1986. He is the author of 10 books, editor of seven and has published numerous articles in anthologies and journals.

A fellow of the British Academy, Wollheim has given a number of prestigious lecture series in England, the United States and Australia, including the William James lectures at Harvard University and the Andrew W. Mellon lectures at the National Gallery in Washington. He is one of the leading scholars in philosophy of the post-war period, with major interests in aesthetics, metaphysics, epistemology, ethics, art, psychology and psychoanalysis.

While here, Wollheim will deliver four public lectures. On March 8, he will speak on "Aspects and Emotion" at 2 p.m. in Room 234 of the MacKinnon building. His other lectures are: "Emotion and Rationality" March 11 at 3 p.m.,

"Emotion, Correspondence and Projection" March 25 at 2 p.m. and "Expressive Meaning in the Arts" March 22 at 2 p.m., all in Room 141, Animal Science and Nutrition building. O

## Positions

Memorial University of Newfoundland seeks a dean of graduate studies. Nominations or applications, including a curriculum vitae, will be received until March 31 by Dr. L.P. Viisentin, Chair, Search Committee for Dean of Graduate Studies, Memorial University of Newfoundland, St. John's, Nfld. A1B 3X7.

The Centro Internacional de Agricultura Tropical (CIAT) is seeking a plant virologist. CIAT is a non-profit international agricultural research centre devoted to increasing food production in tropical developing regions. The appointee would be expected to conduct field and laboratory research on virus diseases, primarily of cassava, and to some extent with tropical forage legumes. Applications should be submitted by March 31 to Dr. Douglas R. Laing, Deputy Director-General, CIAT, Apartado Aereo 6713, Cali, Columbia, telephone 57-3-675050. O

## Future of tourism is bright

Canada's tourism industry and its counterparts throughout the world should not assume that the travellers of the 21st century will be content with "more of the same."

That's the advice of Rik Medlik, a British consultant on international tourism who will discuss the future of the industry at a lecture March 10 at 7:30 p.m. in Room 149 of Macdonald Hall.

Although the future of tourism looks bright, says Medlik, the industry can expect to undergo a lot of changes to keep up with changing consumer demands.

In his lecture, Medlik will compare past and present trends in tourism to predict the future of the industry. His experience as an international consultant on tourism will provide the basis for a discussion of trends in individual countries and comparisons of travel within, rather than between, countries.

Medlik is one of the key people responsible for the worldwide recognition of the tourism industry, says Prof. Michael Nightingale, director of the School of Hotel and Food Administration, which will host Medlik's three-week stay as a visiting professor.

Medlik's expertise in tourism comes from experience. He has travelled professionally throughout North America, the Caribbean and Australia, as well as much of Western Europe and various parts of Africa and Asia. As a private consultant and former director at Horwath & Horwath (U.K.) Ltd., he has advised companies, tourism industries and other organizations.

Medlik is visiting professor at the University of Surrey, where he began his academic career in the early 1970s and was later head of hotel, catering and tourism management and dean of the faculty of human studies. He was instrumental in making tourism a viable part of undergraduate study and in establishing Britain's first post-graduate course in tourism, says Nightingale.

A prolific contributor to both the professional and technical press, Medlik is the author of several books, including the 1986 *Tourism and Productivity*. He has held executive positions in a number of professional organizations, including the Hotel, Catering and Institutional Management Association, the Tourism Society, the International Association of Scientific Experts in Tourism and the European Tourist Research Centre.

Medlik's visit is part of the University's ongoing program to bring distinguished scholars to the campus as visiting professors. He will deliver classroom lectures on tourism and conduct seminars for HAF faculty and students in addition to the March 10 public lecture. O



# Research report

## 'Bread from rocks' gets second funding

The Massachusetts Institute of Technology Review has sparked some smiles on campus by likening the studies of two Land Resource Science professors to the feats of Moses, who struck a stone and produced water.

For the past three years, geochemist Prof. Ward Chesworth and economic geologist Prof. Peter van Straaten have searched for ways to turn Tanzania's indigenous rocks and minerals into fertilizer for the country's subsistence farmers. Together with their Tanzanian counterparts, they have just received \$474,000 from the International Development Research Centre (IDRC) to conduct the second phase of their joint Tanzanian-Canadian agrogeology program.

The researchers' efforts are aimed at helping Tanzanian farmers become more self-sufficient by economically replenishing and conserving their well-worn, highly acidic local soil.

Tanzania was targeted by the IDRC because of its dependency on foreign fertilizer and its abundance of naturally occurring mineral deposits. Tanzanian geologists and soil scientists are working with Chesworth and van Straaten to identify accessible sources of soil nutrients, especially phosphorus, an essential basic element that affects the quality and production of plants.

They have found various pockets of phosphate-bearing rocks. One deposit investigated by van Straaten and his colleagues at the Geological Survey of Tanzania contains enough phosphate to supply local demands for about 50 years.

They have also identified other useful materials such as rocks suitable for liming and zeolite extraction and cinder-like volcanic ash, a possible all-purpose fertilizer and surface cover that can inhibit soil water from evaporating from the soil surface.

Some of the liming materials found in Tanzania are similar to those in southern Ontario's Niagara Escarpment; some Northern Ontario rock contains phosphates similar to those in Tanzania. Chesworth thinks the low-input techniques developed in Tanzania using indigenous rocks could therefore have some application in Canada as well.

Dr. Johnson Semoka, head of the department of soil science at Tanzania's Sokoine University of Agriculture, predicts that agrogeological efforts that spring from this research could increase farmers' yields of beans, maize, vegetables and coffee up to 70 per cent over current yields, which are primarily realized without fertilizer.

Chesworth says the cost of recovery is small compared to the expense of buying and relying on imports. "The size of the average Tanzanian

farm is one acre, and farmers don't have much money to buy fertilizer," he says. "The country can meet just one-fifth of its fertilizer requirements, which come from imports that can only be purchased with the help of foreign aid."

The researchers hope the end result of their efforts is to help reduce world hunger. "Studies of agriculture in Africa conclude that the key to success in feeding that continent is to encourage small farmers," says Chesworth. "With the right kind of knowledge, they can produce food for other Africans too."

IDRC, an Ottawa-based crown corporation, supports research designed to adapt science and technology to the needs of developing countries. It recognized the Tanzanian farmers' dilemma through the efforts of van Straaten, who previously worked in the country for the United Nations. Chesworth credits the IDRC for bringing the Canadian and Tanzanian researchers together for this project. □



Land Resource Science professors Ward Chesworth, left, and Peter van Straaten, centre, in Tanzania with geologist Edwin Mchibiyo.

## Uncovering the secrets of friendly fungus

In most circles, fungus has a bad name. The mould on the leather boots left in the basement, the green tidbits aging in the fridge, plant diseases like corn smut and human ailments like athlete's foot are all fungi—but not all fungi are malevolent.

In fact, the actions of specific groups of friendly fungi have significant implications for agriculture and forestry. An interdisciplinary research group at the University is studying fungi that have a symbiotic relationship with their plant hosts.

In this mutually beneficial arrangement, the fungi wrap themselves around the roots, protecting the plants from other disease-causing fungi and enhancing nutrient uptake through a network of thread-like projections in the soil. In return, the fungi receive sugars from the root.

The research group is looking at the implications of this symbiotic relationship—called mycorrhiza—on tree seedlings, corn and forage legumes. Their findings could result in significant savings in the forestry industry and reductions in fertilizer application on corn and legumes.

Profs. Larry Peterson, Botany, Brian Ellis, Chemistry and Biochemistry, and a group of graduate students are testing mycorrhizal associations on tree seedlings. Once they determine the best match, seedlings could be inoculated with an appropriate fungus to improve survival in the field. Profs. Murray Miller, Land Resource Science, and Steve Bowley, Crop

Science, are approaching the puzzle from the point of view of its agricultural potential.

"The pine seedling loss in Ontario nurseries last year was between 20 and 30 per cent," says Peterson, "and if that can be reduced by even five or 10 per cent, a lot of money could be saved." This plan should appeal to taxpayers, because they foot the bill for the Ministry of the Environment's reforestation program. Inoculation also has important industrial implications ranging from the Christmas tree business to pulp and paper processing.

PhD student Luc Duchesne is trying to find out what chemical interaction takes place when a plant becomes disease-resistant through its interaction with a mycorrhizal fungus. If the protective chemical can be identified, an environmentally safe fungicide could be produced to ward off disease-causing fungi, Duchesne says.

Another PhD student, Malcolm Campbell, is examining the genes that allow the plant to recognize a beneficial mycorrhizal fungus. Campbell says it's not clear why these symbiotic relationships take place, "but that's because we don't have any notion of the molecular mechanisms underlying the relationship."

Miller and his graduate students have been looking at the actions of the fungi on corn ever since they discovered mycorrhizal association is stronger in fields that have not been tilled. Although root growth may not be as great, he

says, the fungus is more effective, bringing the plant more nutrients, particularly phosphorus. Farmers are already encouraged to reduce tillage to cut down on soil erosion.

When the mycorrhizal association is better understood, farmers may not have to maintain such a high level of phosphorus on their fields, Miller says. Mycorrhiza will result in more efficient use of the phosphorus that is already there. Farmers would save money on fertilizer, but equally important, less phosphorus would run off into lakes and streams, where it causes excessive algal growth.

Bowley is examining the genetics of the association in forage legume crops like alfalfa, trefoil and clover. One inoculation of these perennial crops will last years in the field, he says. The impact of improved mycorrhizal associations and the resulting stimulation of symbiotic nitrogen fixation in fields of legumes should have a significant impact on agriculture, he says.

Genetic manipulation could eventually be used to develop new varieties of legumes, says Bowley, but these developments are still years away.

Peterson agrees. He says that although preliminary research in his area is also encouraging, results are probably years down the road. "So far, research in this important area has made us realize how much is still to be learned about forest and crop production." □

## Monitoring system takes guesswork out of drug treatment

by Maria Stewart

OVC professors and students are now able to predict how much is too much when they prescribe drugs for their animal patients.

A new drug monitoring system, installed last November, is providing them with new-found ease and accuracy in deciding on dosages and frequency of treatments.

The Abbott TDx automated therapeutic drug monitoring system, leased from Abbott Diagnostics, is the only one of its kind in a Canadian veterinary school, and one of only a handful in veterinary colleges across North America.

All animals are different, says Prof. Peter Conlon, Biomedical Sciences. Most normal data on drug dosages is established with young, healthy animals, and is not always appropriate for aging or ill patients. The drug monitoring system gives clinicians feedback on how much of a particular drug is appropriate for individual animals by processing a blood sample.

After the drug has been administered to the animal, clinicians take a small blood sample and submit it to the Clinical Pharmacology Laboratory at OVC. There, it is placed in a cartridge, which is then inserted into the computerized monitoring machine. Next to the vial of blood are three vials of prepackaged reagents. The machine reads the bar code of the reagents, telling it what drug is being tested for, aspirates the reagents and then mixes them with the blood in a separate tube.

A polarized light beam from the machine enters this tube, and is then emitted from the

sample. The machine measures the plane of light emitted, converts the plane to a number and thereby indicates the amount of drug present in the sample.

"Disease affects the way the body deals with drugs," says Conlon. The machine helps clinicians to see how the body is absorbing, metabolizing and excreting the drug, and to determine whether more or less should be administered to the animal.

In this way, he says, it is possible to mathematically calculate how high or low the drug dosage should be in order to be therapeutic, but not toxic.

Conlon says all the animals tested on the machine have been mammals—dogs, cats, horses and cows—but because the machine requires such a tiny blood sample, birds, reptiles and amphibians could also be tested. Most human hospitals have similar machines for therapeutic use, but they are also used to test for alcohol or illegal drugs in blood or urine.

To ensure the accuracy of the results, control samples are frequently run through the machine. Most days it only processes two actual samples, but Conlon expects that number to increase. The machine is capable of doing 20 samples at one time.

The unit is located in the Department of Biomedical Sciences, but it is used as a service lab for the Veterinary Teaching Hospital. Within the next few months, Conlon and his colleagues hope to open the service up to veterinarians across the province, and eventually become involved in research projects as well. □



OVC's most recent acquisition for teaching and therapy is an automated therapeutic drug monitoring system. Shown here with the machine are, left to right, Prof. David Porter,

chair of Biomedical Sciences; Prof. Peter Conlon, Biomedical Sciences; and Prof. Brent Matthews, veterinary medical director, Veterinary Teaching Hospital.

Photo by OVC



# Roses that control their own environment

by Mary Dickieson

From the people who brought us "talking" plants, now come roses that can program computers.

Researchers in the Department of Horticultural Science who have been "listening" to plants for years to determine their need for water are now investigating the ability of these plants to regulate their own greenhouse environment through an automated computer control system.

"Plants are the ultimate environmental sensors," says Prof. Mike Dixon. They can tell people what their needs are in terms of light, temperature, humidity and soil moisture.

Several years ago, in a reversal of the usual advice to talk to your plants, Dixon began listening to his. He developed a new version of an instrument called a stem psychrometer, which measures the suction pressure a plant uses to pull water up the stem. Plant stems contain thousands of tiny tubes that transport water from the roots to the leaves.

In thirsty plants, says Dixon, water molecules are pulled up under great tension and sometimes pull away from each other, creating tiny explosions that damage the plant's plumbing system. A sensitive ultrasound microphone is used to detect these explosions, which can be converted to popping noises within the range of human hearing.

Using the psychrometer and microphone together, Dixon can determine the level of drought stress the plant's plumbing system can tolerate. This has important implications for irrigation management of a wide variety of commodities.

After "listening" to thirsty plants for several years, Dixon and colleague Prof. Jim Tsujita have determined that a plant's long-term responses — productivity and quality — can be defined in terms of short-term responses — leaf temperature, stomal aperture and transpiration, which are all associated with the plant's water status.

The current project will investigate the effectiveness of a computer-automated control system that responds to changes in a plant's water status. One benefit to growers will be the development of a set of reliable parameters — minimums and maximums — that will enable them to make better use of sophisticated computer equipment they may already own.

The greenhouse industry's rapid adoption of computer technologies has created a management dilemma, says Dixon. Although an automated greenhouse can maintain any environment, the grower may not know the optimal settings for variables such as temperature, humidity and light intensity. Unfortunately, the development of sensor technologies has lagged behind the control hardware and



Prof. Mike Dixon, left, and Jim Tsujita view the control panel in a new rose research greenhouse that will play a central role in a research effort to determine the ability of a computer

system to regulate a greenhouse environment in response to plant feedback. The gadget pictured below at left, a stem psychrometer, will measure the water status of a rosebush and send messages

to the control panel, which regulates everything from temperature and light intensity to humidity and soil moisture.

Photo by Herb Rauscher, Photographic Services

software, he says. Dixon hopes to change that situation by improving sensor technology and evaluating the problems and advantages of computer-automated greenhouse environments.

Although the results of this research will be applicable to many greenhouse crops, roses are the principal research subject. The Department of Horticultural Science has a broad background in rose research to draw from, says Tsujita, and there is keen interest within the rose industry.

The University is quickly becoming an international centre for rose research, says Tsujita, who was awarded the 1986 Flowers Canada Person of the Year Award for research that has enabled Canadian rose growers to increase the production of some varieties by almost 100 per cent.

Other research areas at the University have included quality control and plant nutrition, and investigations into prolonging the shelf life of cut roses through pre- and post-harvest conditioning. Both of these areas will play key roles in the current research project.

The researchers will also investigate the process of photosynthesis in roses to help define the parameters of this phenomenon, says Tsujita. Potted rose plants enclosed in Plexiglas controlled-environment chambers will be monitored for their response to various carbon

dioxide and light levels. The stem psychrometer will be used to determine how much water stress roses can endure without loss of yield or reductions in quality.

The ultimate goal of the project, says Tsujita, is to evaluate the plant's response to the whole environment and then learn how to use that response to trigger the automated system that controls that environment.

Individual rose growers across North America have contributed to the University's capital campaign to help fund construction of a four-chambered, computer-automated research

greenhouse for this project. In addition, the building contractors and companies supplying both greenhouse equipment and computer hardware have donated gifts-in-kind.

The project will also make use of a modern greenhouse donated in conjunction with the 1986 Canadian Greenhouse Conference by Jacobs Greenhouse Manufacturing Ltd. of Brantford.

More than \$270,000 from the Ontario Ministry of Agriculture and Food will provide the technical expertise needed to operate the program for its three-year duration. O



This little gadget, called a stem psychrometer, will "listen" for the sounds of thirsty rose bushes and send messages to the intricate control panel pictured above with Profs. Mike Dixon and Jim Tsujita. The panel will, in turn, regulate the environment in a new rose research greenhouse. Construction of the greenhouse

was funded by individual rose growers across North America, the contractors and The Campaign. Research funding for the Dixon/Tsujita project on computer-automated greenhouse environmental control is from the Ontario Ministry of Agriculture and Food.

Photo by Herb Rauscher, Photographic Services

## CSS alumni to host Canadian senator

Senator Lorna Marsden will wear both her political and academic hats when she speaks on campus March 24 at the annual dinner of the College of Social Science Alumni Association (CSSAA). Her topic will be "The Social Scientist in the State: The Case for Open Boundaries."

Elected to the Canadian Senate in 1984, Marsden is also a professor of sociology at the University of Toronto. In her March 24 address, she will draw on personal experience to discuss the role of the social scientist in government.

Marsden is a recognized expert on social change in Canada, with particular interest

in the changing circumstances of women in Canadian economic and social life.

Proceeds from the dinner will help fund an endowment for a College of Social Science graduate student scholarship. The CSSAA now presents five annual undergraduate scholarships to social science students.

The dinner meeting begins at 6 p.m. at The Arboretum Centre and is open to both members and non-members of the association. For more information, call Alumni Affairs and Development, Ext. 6657, or Prof. Victor Ujimoto, Sociology and Anthropology, Ext. 3912. O

## Job opportunities

As of *At Guelph* deadline Feb. 19, 1987, the following opportunities were available:

**Chair, Continuing Education Division.** Salary commensurate with qualifications and experience.

**Executive Secretary, Alumni Affairs and Development.** Salary range: \$333.04 minimum; \$384.36 job rate (level 5); \$477.27 maximum.

The following positions were available to on-campus employees only:

**Accounting Clerk, Computing Services.** Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

**Custodian 3, Housekeeping;** three positions available. Job rate: \$10.75 per hour; probation rate: \$ 20 per hour lower than job rate.

**Head Nurse, Large Animal Surgery, Veterinary Teaching Hospital.** Salary range: \$481.04 minimum; \$557.19 job rate (level 5); \$692.11 maximum.

**Senior Designer, Publication and Printing Services.** Salary range: \$414.48 minimum; \$479.33 job rate (level 5); \$594.59 maximum.

**Payroll Clerk, Payroll Department;** two positions available. Salary range: \$363.19 minimum; \$418.51 job rate (level 5); \$517.87 maximum.

**Porter, Veterinary Teaching Hospital.** Job rate: \$10.52 per hour; probation rate: \$ 20 per hour lower than job rate.

**Foreman/Forewoman (night shift), Housekeeping.** Salary range: \$27.174 minimum; \$33.967 midpoint; \$40.760 maximum. Normal hiring range: \$27.174 to \$31.929.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.



# Focus

## A star graduate student

Diane Mather will be heading back to Montreal at the end of March with two graduate degrees from Guelph under her arm. She is one of a handful of students who have graduated with distinction from both a master's and PhD program at the University.

According to her professors, Mather has been no ordinary student. "She was the best graduate student I have had in 35 years," says Prof. Ernest Reinbergs, Crop Science, the faculty adviser for her master's degree. Boasting about his star graduate student, Reinbergs says Mather's ideas and judgment were good, she made quick decisions and she was always up to date on the literature. And when her master's thesis on triticale breeding was finished, he says, "it was finished. There was nothing to take off or to add."

After receiving her B.Sc. from McGill University's Macdonald College, Mather spent a couple of years working in the seed corn industry in Chatham, but decided to come to Guelph, where she wanted to pursue her interests in crop science.

Under the supervision of Reinbergs, she began her thesis on triticale breeding. Triticale is a new human-made species developed by cross-breeding wheat and rye.

After graduating with distinction with her M.Sc. in 1982, Mather headed to Denmark for eight months, where she did research on barley for the Danish government. She returned to Guelph in 1983 to start work on her PhD thesis, which she successfully defended in January.

"I believe Diane's is the first thesis in this department that has been solely based on intellectual work without any laboratory or



Diane Mather with her faculty advisers, Profs. Ernest Reinbergs, left, and Lyndon Kannenberg.

Photo by Maria Stewart, PRI

field data associated with it," says her PhD supervisor, Prof. Lyndon Kannenberg, Crop Science.

For her PhD thesis, Mather studied some of the corn breeding methods Kannenberg is using. As there was no way to predict quantitative results of those breeding methods, she used mathematics and computer simulation to develop a prediction method. Hundreds of computer hours later, without field data or a single lab experiment, Mather had put together her unusual PhD.

Mather says grain yield is usually the most

important characteristic that corn breeders want to improve. But because of this country's shorter growing season, she modelled the two characteristics of grain yield and maturity, and combined them in a mathematical way. "I used the computer to build model populations and then mimicked the selection methods we use."

Kannenberg says Mather's thesis has given him a better understanding of the limitations of his breeding method. "You always hope to learn from your graduate students," he says. "She's been exceptional in that way."

Mather will be returning to Macdonald College as an assistant professor. Her duties will include oat and barley breeding, teaching and research. Her husband, Rob Dickinson, has completed his PhD in systems design engineering from the University of Waterloo, and will likely accept a position with a computer graphics firm in Montreal.

Both Reinbergs and Kannenberg will be sad to see Mather leave Guelph. "We're going to miss having her around," says Kannenberg, "but she'll add a lot to wherever she goes." O

## Briefly

### Cajun-Creole festival

The Whippettree restaurant presents a Cajun-Creole festival until Feb. 27. The tastes and aromas of New Orleans will be highlighted at lunch and dinner each day. For reservations, call Ext. 3500.

### A Touch of Brass

A Touch of Brass, a chamber quintet, will perform in the Department of Music's Thursday noon-hour concert March 3 in Room 107, MacKinnon building. Since their first performances in 1979, the quintet has become one of Canada's premier chamber ensembles, performing more than 100 concerts a year from coast to coast. The group has placed first at the Canadian National Festival of Music, has performed in the Du Maurier "Search for Stars" and has released a record. The group consists of two trumpets, a horn, a trombone and a tuba. The programs at 12:10 p.m. and 1:10 p.m. include some of the following selections: "Canzona" by Samuel Scheidt; "Second Military Suite in F" by Gustav Holst; "Summertime" by George Gershwin; "Three Dance Impressions" by Morley Calvert and "Stardust" by Hoagy Carmichael.

### Research funds

For faculty members with current or upcoming industrial research contracts who are interested in accessing the University Research Incentive Fund (URIF), the next deadline is Feb. 29 in the Toronto office. Applications should be discussed with Industrial and Innovation Services before the final submission. All applications received by 1:15 p.m. Feb. 25 will be sent to URIF by courier. For more information, call Ext. 2776.

### Eyewitness memories

The Humanities Association presents a discussion of "Psychology and the Law: Eyewitness Memories" with Prof. Dan Yarmey, Psychology, Feb. 26 at 8 p.m. in Room 114, MacKinnon building. On March 25, Prof. Tom Carey, Department of Computing and Information Science, will speak on "The Social Impact of Computers" at 8 p.m. in Room 107, MacKinnon building. Both lectures are free to association members and students; general admission is \$4 at the door, \$5 for families.

### Health care alternatives

The Guelph Community Health Centre presents "Your Body, Your Health, Your Choice: Alternatives in Health Care," a three-part series March 2, 9 and 16 at 7 p.m. at Paisley Memorial Church, 40 Margaret St. Topics will include introduction to natural health care, body-mind connection and a different vision. Donations to cover costs would be appreciated. For more information, call Janet at 823-2587 or Connie at 837-1929.

### Media training workshop

The Personnel Department, in co-operation with Public Relations and Information, presents a day-long media training workshop March 8 for faculty and administrative personnel. Workshop leader Pat Adams has a background in journalism and broadcasting, and has trained a variety of private and public sector spokespersons, including politicians. She developed the first videotaped media training course in Canada, and will use that expertise in the campus program. To register, call Ext. 3059 or 6598.

### Segal addresses PSA

Guelph's president designate, Dr. Brian Segal, will address the Professional Staff Association's annual general meeting March 2. Segal will speak on "National Issues in Post-Secondary Education." The meeting begins at 5 p.m. in Room 103, University Centre. Admission is free for PSA members, \$5 for non-members. Memberships can be purchased at the door.

### Courses available

Openings still remain in some non-credit Continuing Education courses and workshops scheduled during the next few weeks. "The Soviet Union Today" runs for six Wednesdays beginning Feb. 24; "Art for Amateurs and Connoisseurs" runs six Wednesdays beginning March 2. The following are all one-day sessions: "Successful Selling and Image Strategies for Women," March 1; "Business Etiquette in the '80s," March 2; "International Woman's Day," March 4; "Herbaceous Plants," March 5; and "Annals," March 19. For more information on these and other courses, call Continuing Education, Ext. 3956 or 3957.

### Student engineers compete

A visit by Canadian astronaut Marc Garneau will highlight the ninth annual Ontario Engineering Design Competition (OEDC) for undergraduate engineering students being held on campus Feb. 26 to 28. Organized by Guelph students and hosted by the School of Engineering, OEDC provides an opportunity for students to test and develop their skills in problem solving, design and communications. Displays and presentations will be open to the public from 6 to 9 p.m. Friday and from 9 a.m. to 3 p.m. Saturday in Peter Clark Hall and Rooms 441 and 442, University Centre. Garneau will speak on "Striving for Excellence" at 3:30 p.m. in Room 105, MacNaughton building. Major patrons of OEDC are Bell Canada, General Motors of Canada Ltd., Northern Telecom Canada Ltd. and Ontario Hydro.

### SSHRC grant to New Zealander

The Social Sciences and Humanities Research Council of Canada's 1988 Jules and Gabrielle Leger Fellowship has gone to a history professor at the University of Canterbury in New Zealand. Dr. Mark Francis will use the \$40,000 (plus \$10,000 for travel expenses) to complete and publish a study entitled "Governors and Settlers: Authority in the British Colonies 1820-1860." He hopes to provide the first comprehensive picture of the evolution of the Crown's authority in the settler colonies.

### People and pets

Researchers in the Department of Psychology are studying people and their pets. Adults aged 25 to 35 with a dog or cat are needed to participate in this research, which involves talking about the relationship with the pet. For more information, call Susan Rosenstein or Dr. Linda Wood at Ext. 3591.

### Theatre in the Trees

The Arboretum presents *Key for Two* in dinner theatre Feb. 27, March 5, 9 and 26. Buffet begins at 6 p.m.; the play begins at 8 p.m. Brunch dates for *Key for Two* are Feb. 28 and March 13 and 27. Brunch begins at 12:30 p.m.; the play begins at 2:30 p.m. Tickets are \$25.50, and can be purchased at the University Centre box office, Ext. 3940.

### Winter fungi

Although they may not be edible, fungi are an interesting and colorful group of plants. Learn more about them on a Sunday afternoon walk Feb. 26 at The Arboretum. The walk leaves from the Nature Centre at 2 p.m.

### Lunchtime films

The Professional Staff Association is sponsoring a brown bag lunch film series featuring short films related to management and administration. This semester, the emphasis is on communications. The films are about 30 minutes long and run at 12:10 and 1:10 p.m. "The Secretary and Her Boss, Part I: Try to See it My Way," starring John Cleese, is March 3 in Room 103, University Centre.

### Osteoporosis study

The departments of Nutritional Sciences and Family Studies are seeking post-menopausal women to participate in a study on nutrition and osteoporosis. Participants must be willing to take all their meals at the University for two two-week periods during the spring or early summer. Meals will consist of nutritious and palatable foods. A stipend will be provided, and assistance will be given with transportation, if necessary. The study is supported by the Osteoporosis Society of Canada. For more information, call Dr. Leonard Piche.

### Ancient Mexican metropolis

The Society for Creative Anachronism speaker series presents "In Search of the Cities of Ancient America," an illustrated lecture emphasizing Teotihuacan, the great metropolis of the fifth century A.D. in Mexico, with Prof. Gil Steller, Department of History. The lecture is Feb. 29 at 8 p.m. in the Faculty Club, Level 5, University Centre.

### Have a Hafa meal

The Hafa restaurant presents The Oasis March 1, featuring chilled strawberry soup, lemon chicken cutlets, orange poppyseed rolls, key lime pie and mango ice cream. On March 2, the restaurant offers an Oriental Experience, featuring a Cantonese special for \$4.75. Buffet and dining room hours are 11:45 a.m. to 1 p.m. For dining room reservations, call Ext. 8116.



# Coming events

## WEDNESDAY, Feb. 24

Lecture - "The Facts of Fiction: Lecture II," Alberto Manguel, noon, University Centre 441; Questions and Discussion, 2 p.m., MacKinnon 317.

Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.  
Botany Seminar - "Plant Cell Growth," David Brunell, 3 p.m., Botany/Genetics/Zoology 117.  
Continuing Education - "The Soviet Union Today," six weeks, 7 p.m., register at 3956/7.  
Drama - *Smoke Damage*, 8 p.m., Inner Stage, \$3.50 and \$4.50, continues to Feb. 27.

## THURSDAY, Feb. 25

Pathology Seminar - "Iso-electric Focusing of Alkaline Phosphatase in Equine Tissues and Sera," R. Ellison, 11:10 a.m., Pathology 220.  
Worship - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.  
Concert - Arthur Rowe, piano, 12:10 and 1:10 p.m., MacKinnon 107.  
Systematics Seminar Series - "Brands of Systematics," Norman Platnick, 3:10 p.m., Botany/Genetics/Zoology 259.  
Lecture - "Formation of Ethylene Dibromide/Glutathione/DNA Adducts and their Biological Relevance," Peter Guengerich, 3:30 p.m., UC 442.

## FRIDAY, Feb. 26

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.  
Calcium Club - "Isolation of Terminal Cisternae of Ca," Brian Brown; "Comparative Evaluation of Protein Assays," Peter O'Brien, 11:50 a.m., Pathology 144.  
Engineering Design Competition - Displays and Presentations, 6 to 9 p.m., Peter Clark Hall.  
Humanities Association - "Psychology and the Law: Eyewitness Memories," Dan Yarmey, 8 p.m., MacKinnon 114, members free, non-members \$5.

## SATURDAY, Feb. 27

Engineering Design Competition - Displays and Presentations, 9 a.m. to 3 p.m., Peter Clark Hall; "Striving for Excellence," Marc Garneau, 3:30 p.m., MacNaughton 105.  
Art Exhibition - "Thomas Moran's Yellowstone," Macdonald Stewart Art Centre, noon to 5 p.m., continues to April 10.  
Worship - Muslim Students' Association Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
Dinner Theatre - Theatre in the Trees, *Key for Two*, 6 p.m., The Arboretum Centre, \$25.50.

## SUNDAY, Feb. 28

Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 10:30 a.m., UC 103.  
Brunch Theatre - Theatre in the Trees, *Key for Two*, 12:30 p.m., The Arboretum Centre, \$25.50.  
Arboretum - Sunday Afternoon Walk, "Winter Fungi," 2 p.m., Arboretum Nature Centre.  
CSA Movie - "Twentieth Tournee of Animation," 8 p.m., War Memorial Hall, \$4.  
International Cinema - "Story of Adele H." (West Germany), 8 p.m., MacNaughton 105, \$2.

## MONDAY, Feb. 29

Our World - "Meares Island Update," Dale Hamilton, 12:10 p.m., UC 441.  
Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.  
Music Lecture Series - "Leitmotiv in Glinka," Mary Woodside, 4:15 p.m., MacKinnon 107.  
Illustrated Lecture - "In Search of the Cities of Ancient America," Gil Stelter, 8 p.m., Faculty Club, UC Level 5.  
Information Meeting - London Semester, 8 p.m., MacKinnon 115.

## TUESDAY, March 1

Art Exhibit - "Mind and Medium," Moyez Alinda, Faculty Club, UC Level 5, continues to March 30.  
Continuing Education - "Successful Selling and Image Strategies for Women," 9 a.m. to 4:30 p.m., register at 3956/7.  
Instructional Development Workshop - "VITAL Modules and Students' Learning," Frans Schryer, noon, Blackwood Hall 211.  
Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.  
Physics Seminar - "New Methods of Dating in Prehistoric Archeology," Henry Schwarcz, 4 p.m., MacNaughton 113.  
Commtech '88 - "New Venture Formation: Building a Growth Company," 4 p.m., UC 441.

## WEDNESDAY, March 2

Continuing Education - "Business Etiquette in the '80s," 9 a.m. to 4:30 p.m.; "Art for Amateurs and Connoisseurs," six weeks, 7:30 p.m., register at 3956/7.  
Worship - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.  
Biochemistry Seminar - "Oxidation of Drugs to Reactive Metabolites as a Possible Mechanism of Adverse Drug Reactions," Jack Utrecht, 12:10 p.m., MacNaughton 222.  
Botany Seminar - "The Genus *Halophila* - Flowering Angiosperms 20 Fathoms under the Sea," Usher Posluszny, 3 p.m., Botany/Genetics/Zoology 117.  
Professional Staff Association - Annual General Meeting, guest speaker Brian Segal on "National Issues in Post-Secondary Education," 5 p.m., UC 103, members free, non-members \$5.

## THURSDAY, March 3

Pathology Seminar - "Effect of SDA on Experimental Carcinogenesis in the Laboratory Rat: Preliminary Studies," D. Kemp, 11:10 a.m., Pathology 220.  
PSA Film Series - "The Secretary and Her Boss, Part I: Try to See It My Way," 12:10 and 1:10 p.m., UC 103.  
Cmncert - A Touch of Brass, 12:10 and 1:10 p.m., MacKinnon 107.  
Worship - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.

## FRIDAY, March 4

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.  
Calcium Club - "Mini 2D-PAGE of Ca-Regulatory Membranes," Janice Gray - "Lymphocyte Ca Extrusion," Barbara Kalow, 11:50 a.m., Pathology 144.

## SATURDAY, March 5

Worship - Muslim Students' Association, Lectures on Islam, 6 p.m., Chapel, UC Level 5.  
Dinner Theatre - Theatre in the Trees, *Key for Two*, 6 p.m., The Arboretum Centre, \$25.50.

## SUNDAY, March 6

Sunday Afternoon Walk - "Backyard Maple Syrup," 2 p.m., Nature Centre.  
International Cinema - "Brother from Another Planet," (U.S.A.), 8 p.m., MacNaughton 105, \$2.

## MONDAY, March 7

CUSO - Information Table, 10:30 a.m. to 2:30 p.m., UC courtyard.  
Our World - "Desertification: Who is to Blame - Climate or Man?" Brent Tegler, 12:10 p.m., UC 441.  
Engineering Graduate Seminar - "Improved Processes for Low-Sodium Restructured Ham," Garry Lin, 3:10 p.m., Engineering 112A.  
Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, March 8

Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.  
Lecture - "Aspects of Emotion," Richard Wollheim, 2 p.m., MacKinnon 234.  
Land Resource Science Seminar - "Solute Transport in Spatially Variable Hydraulic Conductivity Fields," E.A. Sudicky, 2:10 p.m., Land Resource Science 124.

## WEDNESDAY, March 9

Concert - Danse Overtigo, noon, UC courtyard.  
Worship - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.  
Biochemistry Seminar - "Genetic and Molecular Analysis of Cytoplasmic Superoxide Dismutase in *Drosophila*," John Phillips, 12:10 p.m., MacNaughton 222.  
Botany Seminar - "What's in Two Names? Life and Hard Times for the Fungi," Bryce Kendrick, 3 p.m., Botany/Genetics/Zoology 117.

# New botany course passes test

A new introductory botany course designed by Profs. Wilfried Rausser and Hubert Lue-Kim passed the test of 310 students in its initial offering last semester and has 230 enrolled this term.

A prerequisite for about 90 per cent of those students, "Introductory Botany" replaces a course called "The Plant Kingdom" in a trilogy of introductory courses in botany, zoology and microbiology offered by the College of Biological Science.

Most students chose not to take "The Plant Kingdom" until their third semester, says Rausser, and they went into it with trepidation because their predecessors had told them that the classification and naming of plants was boring and tedious.

The new course tries to avoid "information overload" by taking a less technical approach, concentrating on the form and function of plant life. "We don't want students to go into the forest and not see the trees," says Rausser, whose lectures introduce students to the diversity of plant life. "We want them to find out that there's more to the world of plants than corn, soybeans and wheat."

In Lue-Kim's laboratories, students are given the opportunity to discover how plants are put together without getting bogged down with botanical jargon. Lue-Kim begins with the basics — how to use a microscope and how to observe signs of life. Later labs introduce students to classification by asking them to distin-

guish the different types of cells, tissue groups and organisms, giving them the chance to "discover some things on their own," says Rausser.

The evolutionary history of plants is an important element of the course, as is the symbiotic nature of plant and microbial life. One example is the course discussion on fungi. Most students know what fungi are, but have little appreciation for their importance to humans. Without fungi to break down plant materials, the world would run out of carbon dioxide in less than 25 years, says Rausser. An accompanying lab introduced students to the diversity of fungi through the use of live specimens, wax models and color photos from the collection of Prof. George Barton, Environmental Biology, who photographs these organisms as a hobby.

Many labs are punctuated by displays, such as posters prepared by faculty for presentation at scientific conferences or such items as Prof. Usher Posluszny's bonsai trees. Displays are a bonus for students, allowing them to see that there are all kinds of things going on in botany, says Rausser.

Despite the attempt at simplicity, he says the new course curriculum has remained true to the discipline. "Our mandate was to develop a course that would introduce students to the kinds of things that happen in plants in a way that will spark their interest rather than turn them off." □

## Submissions welcome

At Guelph welcomes contributions from members of the University community. "Letters to the Editor" are invited, and the "Faculty, Staff & Student Activities" section has been reinstated. Submissions are also welcome for "Forum," a section for editorials, and a "Speeches" column. If you have given a speech recently — or read one that is relevant to the University — share it through At Guelph.

Also, if you know someone who would make a good subject for a human interest article for the "Focus" column, give us a call.

All submissions should be typed, double spaced, and signed by the correspondent. Each will be verified by a phone call. The executive editor reserves the right to select, edit and position all copy.

If you have some ideas on how to make At Guelph a more informed and involved University community publication, call or write Public Relations and Information, Level 4, University Centre, Ext. 3864. □

# Books



Chief librarian John Black, left, accepts a copy of Consumer Studies professor John Auld's latest publication, *Human Settlements Audio-*

*Visual Resources Catalogue*. It is published by the Canadian Mortgage and Housing Corp.

Photo by John Majors, Photographic Services



# Chemistry & Biochemistry alumni receive awards

Alumni were in the spotlight at the recent annual dinner and awards night of the Department of Chemistry and Biochemistry and the Chemistry/Biochemistry Club.

Four alumni received the Society of Chemical Industry Merit Award as graduates from the 1987 program:

- Dorothy Bakker, chemistry, who is now studying medicine at McMaster University;
- Karen Graham, chemical toxicology, now a student of pharmacology and toxicology at the University of Toronto;
- Donna Fackoury Meagher, applied chemistry, who is now a research assistant for McNeil Consumer Products Co. She also received the E.B. MacNaughton Convocation prize as the Winegard nominee for 1987; and
- Lauretta Williams, biochemistry, who was awarded a science scholarship earlier this year from the Natural Sciences and Engineering Research Council and is now studying at York University. She also received the College of Physical Science Graduation Prize.

Brock Chittim of Guelph presented Joanne Ryks with the newly established Wellington Laboratories Prize in environmental chemistry. Chittim is a CPS alumnus who completed his M.Sc. in 1977 under Prof. SteveSAFE.

Another CPS alumnus, Martin Bosch of Tricorp Chemical Specialties, Guelph, announced the new "Tricorp Chemical Specialties Award," which will be inaugurated in 1989. Bosch completed his M.Sc. in 1971 under Prof. Gordon Lange.

Vice-president, Academic, Jack MacDonald, a former dean of CPS, presented the McArthur-Humphries Scholarship to Kirsten Krastel of Guelph, a University of Guelph entrance scholarship to Kate Stuttaford of Mississauga, and University of Guelph in-course scholarships to Leslie Beyer of Waterloo and Randy Whittall of Bright.

CPS scholarships were presented by Dean Iain Campbell. Susan Ollerhead of Guelph received a CPS Alumni Association Scholarship. Stuttaford and Bob Sun of Georgetown, both students in the new MPC2 program, each received an Honors Chemistry/Honors Biochemistry Scholarship.

Dr. Harold Suderman and his wife, Wilma, presented the H.J. Suderman Demonstrator Awards to PhD students Clint Chapple and Carl Decicco for their work in teaching undergraduate laboratories.

Hestiyanna Koehler of Rockwood received the Weston Research Centre book prize for the best work report of the year while on co-op placement. The Doug Vanhinsberg Award went to Shane Longman of Scarborough, the Floyd Roadhouse Award to Robert Ruman of Etobicoke and the G.A.

Farley Award to Susan Ireton of Perth.

The Honors Chemistry Scholarship was won by Jim Chase of Thunder Bay, the Honors Applied Chemistry Scholarship by Cathy Spears of Orillia and the Honors Chemistry Scholarship by Dereck Hunt of Guelph.

Prize winners for top grades in Chemistry 19-100 were: Lisa-Marie Austin of Burlington, Dierdre Ward of Scarborough and Whitney Chin of Trinidad. Awards for excellence in Chemistry 19-100 went to Dianne Atkinson of Guelph, Tim Boumeester

of Prince Albert, Janet Clements of Elmira, Karen Colwill of North York, Maida Hewton of St. Jacobs, Ho Wing Leung of Guelph, Michael Lewin of Meaford, Laura Lewis of Don Mills, Pamela Shantz of St. Agatha, Bardolph Tse of Hong Kong, David Van Vliet of Kingsville, Elizabeth Wirth of Toronto and Dianna Wolfe of North Bay.

The prestigious Chemical Institute of Canada Silver Medal was won by Peter Hoistra of Cambridge.

Fischer Scientific provided posters for each of the award winners. O

## Personals

**For Sale:** Sunbeam mixmaster, never used; Toyota car mats; child bike carrier, booster seat; carpet ends, 822-3129. Men's top-quality ski boots, used by pro, Garmont, Reichle, Nordica, size 7 1/2 to 8, 846-9212. Thirty square yards of moss green plush carpet in excellent condition, 824-2158 after 5 p.m. Full-length, acid-washed, lined denim coat, men's size large, never worn, Ext. 4037 or 843-5122 evenings. Sofa and chair, 24-inch electric stove, antique maple-framed mirror, two small pine mirrors, 837-3809 after 4 p.m. Pioneer three-motor, three-head, reel-to-reel tape deck, Andre, Ext. 8347 or 856-9377 evenings.

**Wanted:** Wooden desk, 821-9401 after 5 p.m. Unfurnished flat with garden and parking, reasonable rent, for professional woman and cat, rural/semi-rural setting ideal, anywhere in Guelph, Acton, Fergus area, Ext. 3013. British international exchange scientist requires furnished or partly furnished accommodation for two adults and infant from June 26 or July 3 to Aug. 31, Dr. Anne Croy, Ext. 4915, or Julie, Ext. 4911. Couple with cat wishes to rent a house or farmhouse in Elmira/Elora area for May 1, references available, Mary, Ext. 8380 or 824-0558 after 6 p.m.

**Available:** Free 1988 wall and desk calendars in Purchasing Department, second floor.

**Day Hall,** pick up anytime during normal business hours. Typing service, 821-5502 after 5 p.m. Word processing, typing, resumes, data entry on a PC, 824-2426. Two women for housecleaning, 836-4699. Quality day care for children aged 18 to 36 months provided by early childhood educator in private home setting, stimulating program, Sue, 836-6312. Free to a good home, lopeared female rabbit, three months old, 763-0550 after 6 p.m.

**For Rent:** Country home from April 5 to Sept. 30, reasonable rent for responsible person in return for lawn maintenance and pet care, references, 843-3470 after 7 p.m. Two-bedroom furnished apartment, available May 1 to Sept. 1, suitable for student or visiting faculty, 763-9167. Furnished two-bedroom apartment, kitchen, bath and large living area, must have car, Ext. 3075 or 824-3800. Shared accommodation for responsible adult in large four-bedroom home located on conservation area with ample parking, close to University, leave message at 763-5506.

"Personals" is a free service offered by At Guelph for staff, faculty and students of the University. All items must be typed, double spaced, and submitted to At Guelph one week before publication. O

Postage paid in cash at first-class rates, Permit 1149, Guelph, Ontario, N1G 2W1.



UNIVERSITY  
of GUELPH

Guelph

Volume 32 Number 9

March 2, 1988



Carol Croft, secretary, Physics, learns chest compression from chief fire prevention officer Norm Hinds, Physical Resources, instructor of the Cardio-Pulmonary Resuscitation (CPR) courses held on campus each fall and spring. Some 800 faculty and staff have passed the CPR course at the heartsaver level, and one of them may one day save the life of a heart or choking victim.

Photo by John Majorossy, Photographic Services







## OMAF supports \$1-M land stewardship chair

The Ontario Ministry of Agriculture and Food is giving the University \$1 million to establish a land stewardship chair to develop and promote sustainable farming systems in the province.

In announcing the chair last week, Agriculture and Food Minister Jack Riddell said it is part of OMAF's \$40-million program to encourage land stewardship throughout Ontario.

"My ministry wants to encourage farmers to adopt practices that can be sustained over time without degrading our soil or water resources," he said. "The expertise that will be developed at Guelph... will directly help the application of land stewardship on the farm."

Riddell said establishment of the chair at Guelph recognizes this University's unique potential to assist the ministry in its land stewardship goals. "The creation of the chair for a minimum period of five years will expand the University's capabilities in extension, research and education," he said.

The funding will contribute towards the salaries, equipment and operating expenses of

the chairholder, as well as the support staff and graduate students conducting research and extension associated with the chair.

"The chairholder will play the role of an advocate to raise the profile of land stewardship by investigating, discussing and resolving issues in the field," said President Burt Matthews.

The University will appoint an advisory committee that will meet at least once a year to review progress and advise the chairholder on priorities. This committee will be chaired by the dean of research and will include the chairholder, the associate dean of OAC, two Guelph faculty, two OMAF staff and two representatives from the farming community.

OAC Dean Freeman McEwen applauded establishment of the chair, saying it "will give leadership towards ensuring that our resources are passed on to future generations in a productive and sustained state. Conservation of our resources is not just a Canadian problem, it's a world imperative. ○



Good news comes in the form of a letter from the Ontario Ministry of Agriculture and Food confirming the establishment of a \$1-million chair in land stewardship at the University.

Sharing the good news are Jack Riddell, minister of agriculture and food, left, and President Burt Matthews.

Photo by OMAF

## Straight A's for grad programs

Three more graduate programs have received top marks from the Ontario Council on Graduate Studies (OCGS). The MA program in economics, the M.Sc./M.Agr./PhD program in agricultural economics and business, and the M.Sc./PhD program in chemistry and biochemistry were placed in category "A".

A proposed joint PhD program in the field of resource and environmental economics between the departments of Economics and Agricultural Economics and Business is still to be appraised, says Dean of Graduate Studies Doug Ormrod. Three consultants will be visiting the Uni-

versity in the next few months as part of that appraisal, he says.

The graduate program in chemistry and biochemistry is in conjunction with the University of Waterloo in (GWC)<sup>2</sup>, and the "A" classification applies to the entire joint program.

Four departments still await OCGS news on their current or proposed graduate programs, including Clinical Studies (current M.Sc.), Political Studies (current MA), Mathematics and Statistics (current M.Sc. and proposed PhD), Geography, (proposed PhD) and Drama (proposed MA). ○

## Industrial support earns us a 'bronze'

by Owen Roberts,  
Office of Research

Industrial support for natural sciences and engineering research and activities at U of G climbed to \$3.2 million in 1986/87, putting the institution third among all Canadian universities vying for such support.

According to the trade publication *Research Money*, the standing places Guelph ahead of much larger universities, says Dean of Research Larry Milligan.

"It's significant that of 45 plus universities in Canada, this medium-sized university would rank third in industrial support," he says. "It indicates that we're well connected and knowledgeable about the needs and concerns of the private sector, which is demonstrating its confidence in us by putting funding on the line."

The support includes a broad range of non-government activity, including industrial research contracts, graduate student scholarships, grants, fellowships, equipment contributions and personnel support.

Industrial research contracts have grown to account for about seven per cent of the University's total research complement. This has increased steadily since 1983 (when contracts comprised just 2.4 per cent of the total), following the establishment of the Industrial and Innovation Services (I&IS) group in the Office of Research to promote, enhance and encourage University-industry interaction.

Industrial contracts range from short-term sample analysis to complex multi-partner collaborative research programs of three to five years in duration. I&IS director Ron Dolynchuk says the initial interaction for a new company with the University is often a brief service contract or a consultation with an individual faculty member. "If the experience is a positive one, companies often come back for larger and longer-term research contracts, which may involve government participation as well," he says.

Contract research and other scientific investigations often require and unite scientists from various disciplines. "This true multi-disciplinary capacity is distinctive of universities, and is the approach that I believe the public expects to see taking place at universities," says Milligan. It's one reason he thinks business and industry support for research at U of G will keep growing.

"The nature of new opportunities for research funding is based on universities conducting research with the financial support and collaboration of both governments and industry, rather than the three areas conducting research in an isolated way in their own labs," he says. "This new emphasis makes a great deal of fiscal sense because universities — despite being strapped for facilities and capital funding — are in a position to see a research project through from its conceptual stage to development. Most industry or government labs don't have this range."

Despite the encouraging standing among universities, Milligan says it's important to realize funding is only one indication of a university's research role — and a crude one at that.

"Research funding is not an equal yardstick across all disciplines," he says. "Some areas of research require more capital for equipment or greater expenditures on daily supplies than others, but that doesn't mean the others are any less productive."

The greatest source of external research support at the University continues to come from government. The Ontario Ministry of Agriculture and Food is the single largest, with a \$20.8-million contract for research and services, followed by the three major granting councils — the Natural Sciences and Engineering Research Council, the Medical Research Council and the Social Sciences and Humanities Research Council. ○

## College Royal



### Family entertainment at its best

U of G students will search for the perfect cat, build bridges out of Popsicle sticks, try their hand at showing cattle and serve as tour guides for 30,000 campus visitors at College Royal weekend March 11 to 13.

Organized and run by student volunteers, College Royal is one of the University's oldest and proudest traditions — and one of the year's best opportunities for family outings. This year's theme is "Search for Excellence."

Students organize activities like medieval jousting, flower arranging and a petting zoo to entertain visitors, as well as tours, displays and demonstrations all over campus.

Free bus service is provided on Saturday and Sunday to help visitors take in events. Whether you're interested in dramatic readings, ergonomics or live animal surgery, you won't be disappointed. Campus tours are provided for prospective students and those who want to find out what University life is all about.

CBC Radio's Michael Enright, host of "As It Happens," will officially open this year's College Royal open house in the main gym of the Athletics Centre Saturday at 3:15 p.m. But the weekend really starts Friday evening with the popular dog show in the Athletics Centre beginning at 5:30 p.m.

Open house hours are 9 a.m. to 5 p.m. Saturday and 11 a.m. to 5 p.m. Sunday. As a warm-up to College Royal weekend, students will perform in War Memorial Hall March 6 at 8 p.m. in a talentfest along with professional blues singer Jude Johnson. Johnson is co-founder of the Music Art Drama School in Hamilton and teaches music and drama to children.

The annual "Curtain Call" production will be staged March 9 to 11 at 7:30 p.m. and March 12 at 7 p.m. in War Memorial Hall. "Too Cool for Words" is a lively rock 'n' roll parody of university life, written and produced by U of G students. Following the March 12 show, there will be a "Curtain Call" reunion for past performers. Ticket information for all performances is available from the University Centre box office, Ext. 3940. ○



# Feed industry and IS develop program

The University is breaking new ground in agriculture training, courtesy of a co-operative approach between the Canadian Feed Industry Association (CFIA) and the Independent Study division of the School of Continuing Education.

Together, the two have developed a training program leading to the certification of Canadian feed industry advisers.

This first-time program is designed to provide industry personnel with an opportunity to update and upgrade their technological qualifications. It comes at a time when many developments are affecting nutrition, feed formulation and feed technology, and the way the industry is regulated.

To become certified, candidates must complete five home study courses, says Penny Clelland, publications/media manager for Independent Study. The courses deal with principles of nutrition, feed technology, feed

formulation, feed regulations and livestock and poultry health. Clelland says about 150 people have signed up for the courses, but that the potential registration over the next three years is five times that.

At the end of each course, students must submit an at-home examination to Independent Study; after finishing all five courses, they must attend a two-day seminar and complete a written examination. The CFIA will hold seminars regionally to accommodate people from across Canada.

Clelland says the CFIA expects participants to complete the five courses within about a year's time. Each person who fulfils all course, seminar and examination requirements will receive the Independent Study/Canadian feed industry adviser certificate from the University and the CFIA. □

# Travel agency plans opening

In Greek mythology, Icarus tried to fly to escape from Crete, but fell to his death in the sea when the sun melted his wax-coated wings. Noah and his troupe took to the sea to avoid torrential rains. And Moses led the children of Israel on a 40-year desert trek to reach the Promised Land.

Today, airline travel, luxury cruise liners and railways make travelling simpler and more accessible. But for those bitten by the travel bug, a tight budget could threaten to nix all globe-trotting plans.

Travel Cuts Guelph, located in the University Centre, to be officially opened March 24, wants to change that. The company, owned by the Canadian Federation of Students—Services (CFS—Services), is a travel agency that offers discount fares and special deals to students and non-students to get them travelling affordably. As a member of the International Student Travel Conference, Travel Cuts Guelph is authorized to sell student discount tickets and is affiliated with student travel organizations all over the world.

Jennifer Patterson, manager of Travel Cuts Guelph, says the agency "specializes in budget fares and tour packages for students, but we also offer travel services as well as budget fares for the entire community."

For example, Patterson says, Travel Cuts Guelph offers a five-per-cent discount on sun packages and one free night's accommodation in London when European tours are booked through them.

The company also offers students an opportunity to work and travel abroad through the Student Work Abroad Program (SWAP). Students taking advantage of this CFS-owned program receive a working holiday visa to work in Britain, Ireland, New Zealand, Australia or Japan.

Travel Cuts Guelph also books Canadian wilderness trips for those people whose interests lie in the hearty Canadian outdoors. Designed for people aged 18 to 45, the program allows participants to abandon urban life for a weekend, braving the cold of Algonquin Park to dogsled and cross-country ski.

Since its inception 19 years ago, Travel Cuts has opened 24 offices: 23 in Canada and one in London, England. Travel Cuts Guelph opened its doors Feb. 1, but the official opening day ceremonies will be held March 24 from 11 a.m. to 2 p.m. in the University Centre courtyard.

# Food irradiation research gets three-year commitment

While the politics of food irradiation rage on, two University researchers will be studying the science behind this hotly debated issue with a three-year \$121,500 grant they've just received

from the Ontario Ministry of Agriculture and Food.

Profs. Rick Yada, Food Science, and Les Ferrier, Animal and Poultry Science, will concentrate their studies on improving the sensory quality of irradiated food.

The researchers will focus on two main areas — improving the texture of irradiated food to make it more acceptable to the consumer and finding ways to use irradiation in a complementary fashion with other methods of food preservation.

Despite public concerns about food irradiation — the practice of exposing certain foods to low-level ionizing radiation to increase shelf life — it has proven safe through more than 30 years of research, says Yada. Advantages include heat-free sterilization of fresh foods such as meat and spices, retardation of the growth of harmful micro-organisms like salmonella, and low-cost pest control in food. Irradiation is used commercially in the Netherlands, Japan, South Africa and the Soviet Union, and was approved for use in the United States in 1986.

A disadvantage of the process is that it causes changes in texture and flavor of many foods, which reduces their acceptability on the market. "But the fundamental mechanisms of off-flavor formation and texture degradation have never been adequately explained," says Yada. "As a result, there are no broadly applicable methods for preventing or correcting the problem."

The researchers will use irradiation combined with other preservation techniques like modified atmosphere packaging, in an attempt to heighten the advantages and minimize the disadvantages of both. "Irradiation affects the texture and flavor while packaging wrapping promotes high moisture levels and therefore higher micro-organisms inside the package," says Ferrier. "Less exposure to irradiation may help the flavor and texture problem while reducing micro-organisms in the package." □

## At Guelph

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At Guelph is guided by an editorial policy approved by the president of the University. A copy is available upon request.

Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items, speeches, faculty and staff activities, and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified.

Stories may be reprinted with acknowledgment of source.

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# Focus

## The four that feed OVC



Cooking up a storm in the OVC coffee shop are, left to right, Ruth McCuen, Susan Margetts,

Susan Bridgeman and Irene Wurr.

Photo by Maria Stewart, PRI

Too many cooks spoil the broth. Or at least in some kitchens they do. But not at the OVC coffee shop, where four women run a tight ship in a kitchen the size of a postage stamp.

"They say more than one woman in the kitchen is crazy," says supervisor Susan Bridgeman, "but we don't have any problem."

And that's quite a feat considering that on an ordinary day the women brew nine pounds of coffee — 540 cups to be exact — serve dozens of lunch specials and act as short-order cooks for many other meals — all in a kitchen without a stove.

Although the staff have no traditional stove, they do have the luxury of two microwave ovens, a grill top and a deep fryer, all packed tightly in the tiny kitchen laneway, where two people have difficulty in passing.

Bridgeman, who has been at the coffee shop

for just over a year, works alongside Ruth McCuen, a 19-year veteran of the coffee shop, Irene Wurr, who has been working there almost two years, and newcomer Susan Margetts, who has been there for only three months.

The cooks receive few complaints and lots of positive feedback from the faculty, staff, students, construction workers and other passersby from the nearby bank and hair salon who make use of the shop, which is owned and operated by the Guelph Campus Co-op.

"They nearly all come in at one time or another" during the kitchen's 9:30 to 4:30 p.m. hours of operation, says Bridgeman.

She says the secret of keeping four cooks happy in one kitchen is that they all have their own duties and stay in their own prescribed areas. But, she admits, "you really do have to get along in here." □

# Visiting Professor

Mathematician Oscar E. Lanford III, a professor at Eidgen Technische Hochschule in Zurich, Switzerland, will be a Winegard visiting professor in the Department of Mathematics and Statistics from March 6 to 19.

A former professor at the Institut des Hautes Études in Bures-sur-Yvette, France, and the University of California, Berkeley, Lanford has made numerous contributions to the field of mathematics, particularly in the areas of

dynamical systems and mathematical physics. His most recent work involves the theory of the transition to turbulence.

While at Guelph, Lanford will give a five-part lecture series on "Topological and Renormalization Group Analysis of Interval and Circle Mappings." It begins March 7 at 2 p.m. in Room 118, MacNaughton building. The series continues March 9, 10, 15 and 17 at 3 p.m., with all lectures in Room 118, MacNaughton building, except for the March 9 lecture, which is in Room 101.

Lanford will also present a colloquium lecture on "Functional Equations and 'Universality' in Dynamical Systems Theory" March 8 at 3 p.m. in Room 101, MacNaughton building. A reception will follow the colloquium.

Lanford will be available for consultation during his visit. For more information, call Prof. Pal Fischer, Ext. 2607, or Prof. Bill Langford, Ext. 3038. □

## NO AT GUELPH MARCH 16, 30

At Guelph will not be published March 16 and 30. Please plan your news around these two issues. If you have any special publicity problems because of these cancellations, please give us a call at Ext. 3864. □

# Faculty activities

Prof. Ed Janzen, Chemistry and Biochemistry, is in East Germany as a National Academy of Science exchange scientist until March 15. During his month-long visit, he is lecturing and visiting various laboratories of the Academy of Science. He has been named to the Wilhelm Ostwald chair in the department of chemistry at Karl Marx University in Leipzig, East Germany, where he is giving lectures in physical organic chemistry. This is the first time someone outside the Soviet Socialist Republic has been granted this honor. □

# Letters to the Editor

## Sulawesi ads appear before open hearings

Further to "A 'yes' for University of Guelph's presence in Indonesia," At Guelph, Feb. 10:

It is unfortunate that Prof. Hans Bakker's reply to the concerns raised in my "In good conscience: Can the University continue the Sulawesi Project?" in At Guelph, Jan. 20, failed to meet any of the concerns I raised. The University's technical planning assistance in a massive population relocation scheme that destroys large tracts of tropical forests, with a government known to be guilty of the mass murder and torture of its citizens, ongoing totalitarian repression of civil rights and extreme exploitation of its impoverished citizens deserves more than the fact-evasive and digressive response given by Bakker.

It is disturbing that no one in a position of responsibility in the University's \$12-million Sulawesi Project has yet explained in the face of these facts how it is assisting the inhabitants of Indonesia, rather than the government that is oppressing them. Yet the on-campus director of the Sulawesi Project has placed an ad for seven upcoming positions on the project in the February Canadian Association of University Teachers Bulletin before the University's open hearings on the subject have even taken place.

Can there be any doubt left as to the academic and moral responsibility of this project's leadership?

Prof. John McMurtry,  
Philosophy.



# Briefly

## Directory distributed

Bell Canada's 1988 telephone directory has been distributed across campus. If you haven't received a copy, call Communications Services, Ext. 4219.

## International tourism

The School of Hotel and Food Administration is presenting a public lecture entitled "International Tourism: Past, Present, Future" with Winegard visiting professor Rik Medlik March 10 at 7:30 p.m. in Room 149, Macdonald Hall.

## German wine tasting

The Faculty Club will host a seminar and tasting of German wines with a representative from Hiram Walker March 9 at 7:30 p.m. Cost is \$7. For reservations, call Ext. 8578 or 824-3150.

## Backyard maple syrup

If you like maple syrup on your pancakes but don't have access to a sugar maple, The Arboretum's Sunday afternoon walk March 6 is for you. The walk leaves from the Nature Centre at 2 p.m. The Arboretum's interpretive program features maple syrup days every weekend from March 12 to April 10, from 9:30 a.m. to 3:30 p.m.

## Psychology colloquium

The Department of Psychology presents "Picture Memory in Human and Non-Human Primates," a colloquium with Bill Roberts, department of psychology, University of Western Ontario, March 2 at 12:15 in Room 025, MacKinnon building. Roberts will discuss the comparative psychology of memory at three levels — structure, process and content — and will examine short-term memory for lists of pictures, memory for picture fragments and the acquisition of natural categories.

## Theatre in the Trees

The Arboretum presents brunch theatre performances of *Key for Two* March 13 and 27. Brunch begins at 12:30 p.m.; the play begins at 2:30 p.m. Tickets are \$25.50 at the University Centre box office, Ext. 3940.

## Courses available

Openings still remain in some non-credit Continuing Education courses being held during the next few weeks. "Art for Amateurs and Connoisseurs" runs six Wednesdays beginning March 2. The following are day-long sessions: "Business Etiquette in the '80s," March 2; "International Woman's Day," March 4; "Herbaceous Plants," March 5; "Annuals," March 19; "Advanced DBase III," March 26;

and "Reading Skills Workshop," March 26. Information is now available on "The Soviet Union Today: A Tour," scheduled for mid-August. For more details, call Continuing Education, Ext. 3956 or 3957.

## Watercolor show

The Macdonald Stewart Art Centre is one of only three Canadian stops for a watercolor exhibition by 19th-century American artist Thomas Moran. The works are on loan from the Gilcrease Museum of Tulsa, Oklahoma, and will be on view until April 10.

## Jazz fusion

The Whippetree presents Flight 019, a jazz fusion group March 10 to 12. Shows start at 10 p.m.

## Quarks, color and glue

The Guelph-Waterloo Physics Colloquium presents Frank Close, department of physics, University of Tennessee, in its distinguished lecturer series. Close will review the new insights into the nature of matter that are emerging from the theory of colored quarks March 8 at 4 p.m. in Room 113, MacNaughton building.

## Open hearing

The President's Advisory Committee on Social Responsibility will examine the ethical considerations for University involvement in international development and research projects. An open hearing will be held March 10 from 9 to 11 a.m. in Room 103, University Centre. Those who wish to provide input to the committee should already have contacted the University Secretariat.

## Arts reunion dinner

The College of Arts Alumni Association is holding a reunion dinner March 12 at 6 p.m. at The Arboretum. Prof. Eugene Benson, English Language and Literature, is the guest speaker. Tickets are \$25 general, \$16.50 for students. To reserve, call Alumni House, Ext. 6657, by March 7. Everyone is welcome.

## Lost-and-found auction

Surplus Sales and the Security Department are holding an auction sale of lost-and-found items March 4 at 11:30 a.m. in the University Centre courtyard. Items include jewelry, bicycles, watches and calculators. Viewing begins at 11 a.m. All sales are cash.

# Coming events

## WEDNESDAY, March 2

Continuing Education - "Business Etiquette in the '80s," 9 a.m. to 4:30 p.m.; "Art for Amateurs and Connoisseurs," six weeks, 7:30 p.m., register at 3956/7.

Worship - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.

Biochemistry Seminar - "Oxidation of Drugs to Reactive Metabolites as a Possible Mechanism of Adverse Drug Reactions," Jack Utrecht, 12:10 p.m., MacNaughton 222.

Psychology Colloquium - "Picture Memory in Human and Non-Human Primates," Bill Roberts, 12:15 p.m., MacKinnon 025.

Botany Seminar - "The Genus *Halophila* — Flowering Angiosperms 20 Fathoms under the Sea," Usher Posluszny, 3 p.m., Botany/Genetics/Zoology 117.

Professional Staff Association - Annual General Meeting, guest speaker Brian Segal on "National Issues in Post-Secondary Education," 5 p.m., UC 103, members free, non-members \$5.

## THURSDAY, March 3

Pathology Seminar - "Effect of SDA on Experimental Carcinogenesis in the Laboratory Rat: Preliminary Studies," D. Kemp, 11:10 a.m., Pathology 220.

PSA Film Series - "The Secretary and Her Boss, Part I: Try to See It My Way," 12:10 and 1:10 p.m., UC 103.

Concert - A Touch of Brass, 12:10 and 1:10 p.m., MacKinnon 107.

Worship - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.

## FRIDAY, March 4

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.

Continuing Education - "International Women's Day," 9 a.m. to 4:30 p.m., register at Ext. 3956/7.

Auction Sale - Lost-and-Found Items, 11 a.m. viewing, 11:30 sale, UC courtyard.

Public Lecture - "Changing Conceptions of Character in 20th-Century Drama," George Brandt, 11:10 a.m., MacKinnon 224.

Calcium Club - "Mini 2D-PAGE of Ca-Regulatory Membranes," Janice Gray; "Lymphocyte Ca Extrusion," Barbara Kalow, 11:50 a.m., Pathology 144.

Biomedical Sciences Seminar - "Enigmatic Embryos," Keith Betteridge, noon, Biomedical Sciences 1642.

Current Issues in Agriculture - "Expert Systems: A Management Tool," Norman Clarke, 3:10 p.m., Crop Science 121.

## SATURDAY, March 5

Continuing Education - "Herbaceous Plants," 9 a.m. to noon, register at Ext. 3956/7.

Worship - Muslim Students' Association, Lectures on Islam, 6 p.m., Chapel, UC Level 5. Dinner Theatre - Theatre in the Trees, *Key for Two*, 6 p.m., The Arboretum Centre, \$25.50.

## SUNDAY, March 6

Sunday Afternoon Walk - "Backyard Maple Syrup," 2 p.m., Nature Centre.

International Cinema - "Brother from Another Planet," (U.S.), 8 p.m., MacNaughton 105, \$2.

## MONDAY, March 7

CUSO - Information Table, 10:30 a.m. to 2:30 p.m., UC courtyard.

Our World - "Desertification: Who is to Blame — Climate or Man?" Brent Tegler, 12:10 p.m., UC 441.

Mathematics Lecture - "Topological and Renormalization Group Analysis of Interval and Circle Mappings," Lecture One, Oscar Lanford, 2 p.m., MacNaughton 118.

Engineering Graduate Seminar - "Improved Processes for Low-Sodium Restructured Ham," Garry Lin, 3:10 p.m., Engineering 112A.

Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, March 8

Workshop - "Media Training," 9 a.m. to 4:30 p.m., UC 442, registration required at Ext. 3059/6598.

Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.

Philosophy Lecture - "Aspects of Emotion," Richard Wollheim, 2 p.m., MacKinnon 234.

Land Resource Science Seminar - "Solute Transport in Spatially Variable Hydraulic Conductivity Fields," E.A. Sudicky, 2:10 p.m., Land Resource Science 124.

Mathematics Colloquium - "Functional Equations and 'Universality' in Dynamical Systems Theory," Oscar Lanford, 3 p.m., MacNaughton 101.

Physics Colloquium - "Quarks, Color and Glue — The New Stuff of Matter," Frank Close, 4 p.m., MacNaughton 113.

## WEDNESDAY, March 9

Concert - Danse Overtigo, noon, UC courtyard.

Worship - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.

Biochemistry Seminar - "Genetic and Molecular Analysis of Cytoplasmic Superoxide Dismutase in *Drosophila*," John Phillips, 12:10 p.m., MacNaughton 222.

Botany Seminar - "What's in Two Names? Life and Hard Times for the Fungi," Bryce Kendrick, 3 p.m., Botany/Genetics/Zoology 117.

Mathematics Lecture - "Topological and Renormalization Group Analysis of Interval and Circle Mappings," Lecture Two, Oscar Lanford, 3 p.m., MacNaughton 101.

International Club - "Other Perspectives: A Photographic Journey Through South-East Asia," Richard Schneider, 7 p.m., OVC 508.

## THURSDAY, March 10

Open Hearing - President's Advisory Council on Social Responsibility, 9 a.m., UC 103.

Pathology Seminar - "Market Hog Pathology," J. Marjerrison, 11:10 a.m., Pathology 220.

Worship - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.

Concert - Atlantic Arts Trio, 12:10 and 1:10 p.m., MacKinnon 107.

Mathematics Lecture - "Topological and Renormalization Group Analysis of Interval and Circle Mappings," Lecture Three, Oscar Lanford, 3 p.m., MacNaughton 118.

Systematics Seminar Series - "The Species Problem and Taxonomy of Hemoflagellates," Patrick Woo, 3:10 p.m., Botany/Genetics/Zoology 259.

Macdonald Stewart Art Centre - Michael Snow: Special Screening, film and discussion, 4 p.m.

Public Lecture - "International Tourism: Past, Present, Future: The Challenge and Shape of Things to Come," Rik Medlik, 7:30 p.m., Macdonald Hall 149.

## FRIDAY, March 11

Schedule of Dates - Last day for preregistration for spring semester, in-course students.

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.

Calcium Club - "Transmembrane 45Ca-Flux," Brian Brown; "Pumping Calcium," Peter O'Brien, 11:50 a.m., Pathology 144.

College Royal - Open House, 5:30 to 10 p.m.

Drama - Three One-Act Plays, 8 p.m., Massey Hall, \$1.

Philosophy Lecture - "Emotion and Rationality," Richard Wollheim, 3 p.m., Animal Nutrition 141.

## SATURDAY, March 12

College Royal - Open House, 9 a.m. to 5 p.m.

Worship - Muslim Students' Association Lectures on Islam, 6 p.m., Chapel, UC Level 5.

Reunion Dinner - College of Arts Alumni Association, 6 p.m., The Arboretum, \$25 general, \$16.50 students, RSVP to Ext. 6657 by March 7.

Drama - Three One-Act Plays, 8 p.m., Massey Hall, \$1.

## SUNDAY, March 13

Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 10:30 a.m., UC 103.

College Royal - Open House, 11 a.m. to 5 p.m.

Brunch Theatre - Theatre in the Trees, *Key for Two*, 12:30 p.m., The Arboretum Centre, \$25.50.

CSA Movie - "Stakeout," 8 p.m., War Memorial Hall, \$2.50.

International Cinema - "1919" (Britain), 8 p.m., MacNaughton 105, \$2.

## MONDAY, March 14

Our World - "Our Common Future: The Brundtland Report," 12:10 p.m., UC 441.

Engineering Graduate Seminar - "Hydraulic Capacity of River Inlets," Alex Wong, 3:10 p.m., Engineering 112A.

Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, March 15

Instructional Development Workshop - "Using HyperCard in Your Teaching," Alex Lopez and Michael Leblanc, noon, Blackwood Hall 211.

Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.

Philosophy Lecture - "Emotion, Correspondence and Projection," Richard Wollheim, 2 p.m., Animal Nutrition 141.

Land Resource Science Seminar - "VAM and Plant Growth in a British Hay Meadow," Terry McGonigle, 2:10 p.m., Land Resource Science 124.

Mathematics Lecture - "Topological and Renormalization Group Analysis of Interval and Circle Mappings," Lecture Four, Oscar Lanford, 3 p.m., MacNaughton 118.

Physics Colloquium - "Does Time Reversal Have a Future?" P.K. Kabir, 4 p.m., MacNaughton 113.

Senate - Meeting, 8 p.m., MacNaughton 113.

## WEDNESDAY, March 16

Concert - University of Guelph Performance Dance Class, noon, UC courtyard.

Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.

Biochemistry Seminar - "Human Congenital Lactic Acidosis: Defects in the Krebs Cycle and the Mitochondrial Respiratory Chain," Brian Robinson, 12:10 p.m., MacNaughton 222.

Botany Seminar - "Crop Simulation Models," Tony Hunt, 3 p.m., Botany/Genetics/Zoology 117.

CUSO - Information Meeting, 7:30 p.m., UC 334.



## Training sessions

Communications Services (CS) is offering hands-on training and retraining sessions in the use of ROLMphones and PhoneMail. The workshops are in response to a recommendation in the *Report of the President's ad hoc Committee on Internal Communications*. (See *At Guelph*, Jan. 20).

Training sessions on the system, which was installed two years ago, will be held from March 21 to 25. Topics will include how to use such features as transfer, call forward, call waiting, conference call, station speed and system speed. Anyone considering PhoneMail should also take advantage of these sessions.

If, after a session, participants decide their department telephones need a design review, this will be scheduled with departmental co-ordinators by CS personnel.

CS is sending a schedule of dates and times to all faculty and staff. To register, call Ext. 3299. ○

## Job opportunities

As of *At Guelph* deadline Feb. 26, 1988, the following opportunities were available: Assistant Director of Residences, Residence Life. Normal hiring range: \$35,154 to \$41,306.

Research Assistant, Molecular Biology and Genetics; grant position. Salary: \$353.20 per week.

Post-doctoral Fellow or Research Associate, Department of Pathology; grant position. Salary: \$23,000 per annum, pro-rated.

Third-Class Stationary Engineer, Central Utilities Plant. Job rate: \$14.03 per hour; probation rate: \$13.28 per hour.

*The following positions were available to on-campus employees only:*

Post-mortem Room Attendant, Pathology Department. Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

Medical Records Receptionist, Veterinary Teaching Hospital. Salary range: \$276.64

minimum; \$320.83 job rate (level 5); \$385.08 maximum.

Agricultural Assistant, Veterinary Teaching Hospital. Salary range: \$418.38 start rate; \$439.26 six-month rate; \$460.07 one-year job rate.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.

## Residences hosts conference

More than 200 residential life staff representing universities in Ontario, Quebec, Illinois and New York met on campus last month for the eighth annual University of Guelph Residence Life Conference.

With a conference theme of "Learning from Each Other," delegates attended workshops covering such topics as "Standards and Ethics for Residential Assistants" and "Why Program Anyway?" and compared notes on the various systems and approaches taken to dealing with residence and student life.

Keynote speaker was Dr. Floyd Hoelting, director of residential life at Illinois State University.

During the conference, a special award was named in honor of Julianne Pettigrew, Guelph's assistant director of residence life. The award is to be given to an outstanding seminar presenter at future conferences. ○

## Graduate News

Some 170 graduate students, representing 14 departments in five colleges, turned out for the first animal care short course for graduate students, held in January. Moderated by Prof. Ed Bailey, Zoology, chair of the University's Animal Care Committee, the program covered a wide range of animal care, experimentation and welfare topics.

Speakers included Drs. Frank Flowers and Harry Rowsell of the Canadian Council on Animal Care, Ottawa, and Dr. Roy Moore of the Ontario Ministry of Agriculture and Food. Flowers discussed the control and regulation of animal research, Rowsell covered the ethical and practical consider-

ations in euthanasia, and Moore presented details of the Ontario Animals for Research Act.

Guelph faculty who spoke to the group included Prof. Denna Benn, director of Animal Care Services, on the animal welfare movement; Prof. Hugh Lehman, Philosophy, on philosophical considerations; Prof. Ron Downey, OVC dean's office, on animal models and alternatives; Prof. Dean Percy, Pathology, on factors affecting experimental data; and Prof. John Prescott, Veterinary Microbiology and Immunology, on zoonoses and biohazards. ○

**For Sale:** Wifa Gold Star Ladies' figure skates with Coronation blades, size 6 1/2B, excellent condition, 837-0413. CL14 sailboat, 14-foot, roller furling jib, trailer, ideal for Guelph Lake and racing, excellent condition, Ext. 6518 or 822-4955 after 5 p.m. Pioneer three-motor, three-head, reel-to-reel tape deck, Andre, Ext. 8347 or 856-9377 evenings. New, revolutionary "1988 Heat Machines," compact and portable heaters, efficient, safe, 5,200 BTUs, 843-4445 after 5 p.m. Stove and fridge, 823-2159 after 5 p.m. HAM equipment-Trac message memory keyer and Vibroplex key; 1 kw dummy antenna; HONDA EX-800 portable generator, like new; FENDER P/Bass, brand new with case, 823-2144.

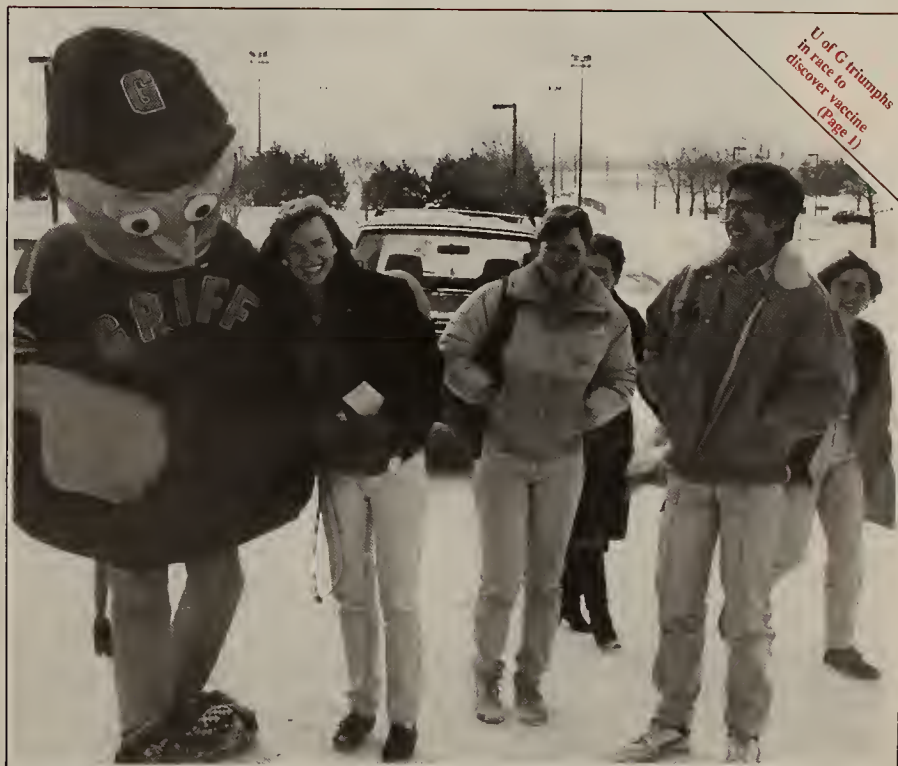
**Wanted:** Tutor for Grade 13 functions and physics, Ron, 821-6436 after 4 p.m. Babysitter for two-year-old boy, evenings only, old University area, 837-0413. To buy, rent or borrow Lionel Ritchie's record of his most popular songs, Marj, Ext. 8773 or 824-

1628. Cottage to rent from Aug. 20 to Sept. 3 for family of four, will consider renting for entire month of August if available, Sandy, Ext. 3465 or 622-1574 (Cambridge) after 6 p.m. To rent small house or two-bedroom apartment April 20 to Aug. 20 for seasonal lecturer, call collect evenings Anne-Louise, 416-481-0280, or Paul, 301-889-4363. To buy bungalow in old University area, no agents, Ext. 4139 or 823-5014 evenings.

**For Rent:** Furnished modern house near Aix-en-Provence, France, for permanent residence during a sabbatical year, September 1988 to May 1989, three bedrooms, country living, garden, swimming pool, schools nearby, Prof. Andre Rousseau, "Ginestelle," Saint-Marc-Jaumegeard, 13100 Aix-en-Provence, France, telephone 42-24-90-53.

Postage paid in cash at first-class rates, Permit 1149, Guelph, Ontario, N1G 2W1.





## Inside:

Sulawesi Project under fire .....	2 & 4
Operating budget ready for BofG .....	3
World conference announced .....	5
Research, teaching funds available .....	5

## Cover:

"Griff," mascot of the Guelph Gryphons football team, welcomes high school students who have applied to come to U of G to Campus Days (formerly known as March Counselling) held on campus last week. Over the three-day event, some 1,800 applicants — 700 more than last year — and their friends and relatives toured the University and attended resource and academic sessions where they met faculty, staff and academic counsellors. The students came from as far away as Nova Scotia.

Photo by John Majorossy, Photographic Services.







# Vaccine discovered to prevent shipping fever

OVC professors Patricia Shewen and Bruce Wilkie have created a vaccine to control shipping fever, a disease that costs the North American cattle industry up to \$600 million a year in losses.

Their discovery was announced March 18 at a campus news conference, where Frank Oberle, minister of state for science and technology, and Clayton Switzer, Ontario's deputy minister of agriculture and food, were guest speakers. President Burton Matthews and Dean of Research Larry Milligan provided background on Guelph's research efforts in this area. "The research program that has led to today's announcement is an excellent example of how basic research can yield significant innovations that ultimately can be commercialized," said Matthews.

Development of the shipping fever vaccine, which has been proven effective in laboratory tests, has involved more than 10 years of study for Shewen and Wilkie. Their research was based on work that had begun at U of G more than 10 years before. The process is now being adapted for commercial purposes by Langford Inc. of Guelph, which has a licensing and technology development agreement with the University. Langford plans to market the vaccine later this year in Canada and the United States after adequate licensing data is completed and accepted by Agriculture Canada and the U.S. Department of Agriculture.

Oberle congratulated the research team for "linking creative genius and the curiosity of research scientists with the entrepreneurial spirit." He said the vaccine represents a "perfect marriage" of university, industry and government effort.

The University has received more than \$560,000 since 1977 for this research. Of this amount, the Ontario Ministry of Agriculture and Food provided \$174,000 and the federal government provided \$216,000 through the Natural Sciences and Engineering Research Council, Agriculture Canada and the Medical Research Council. Langford has contributed \$172,000 with support from the National Research Council's Program for Industry Laboratory Projects in Biotechnology.

"I'm not surprised by this breakthrough in bovine medicine," said Switzer, citing OVC's reputation for excellence in veterinary medicine. "The discovery of this vaccine reinforces our view that Guelph should be the centre for veterinary management and agricultural science for all of North America," he said.

Shewen and Wilkie said their work culminates the efforts of many University researchers who have studied the disease pneumonic pasteurello-

sis since it first became a problem in the Canadian cattle industry. "Shipping fever is the major disease affecting feedlot cattle," said Wilkie. It accounts for 60 to 75 per cent of all health-related losses, costing producers from \$10 to \$20 per animal in treatment costs, reduced weight gain and death losses.

"In the bovine world, discovering a vaccine to effectively control shipping fever is comparable to finding a way to control the common cold in humans," said Shewen. "The implications of this to the cattle industry are enormous."

Bovine pneumonic pasteurellosis is a pneumonia that cattle develop under stressful conditions. Weaning, castration, branding, injections of antibiotics and mass mixing with other animals during shipping are all sources of stress.

Research has shown that the bacterium that causes the pneumonia is carried naturally in the noses of all cattle. Normally, only minute amounts are released into the lungs and can be countered by "clearing cells" in the immune system. Under high stress, however, the organisms' numbers increase and are taken into the lungs, where they multiply and impair the function of the clearing cells.

Ultimately, the afflicted animals — often 20 per cent or more of a herd — develop pneumonia; up to five per cent die. The illness costs Canadian cattle producers \$40 million to \$60 million in losses annually, and American producers up to \$600 million.

In laboratory tests, Shewen and Wilkie, who are in the Department of Veterinary Microbiology and Immunology, discovered that the shipping fever bacterium produces a toxin during its most active stage of growth. This toxin, they found, is what impairs the clearing cells' ability to get rid of the bacterium. They grew the bacterium in a culture, monitored toxin production, then extracted the active toxin. Cattle inoculated with minute quantities of the vaccine made from this toxin built up a significant resistance to it.

"Other shipping fever vaccines failed to recognize the importance of the toxin," says Wilkie, who is director of the Animal Biotechnology Centre. "Ordinarily, vaccines were concocted after the toxin expired, so the inoculant didn't contain anything for the animals to build up an immunity against. In fact, studies show that previously inoculated animals became worse when treated with these vaccines."

Shewen and Wilkie have worked with Dr. Charles Povey at Langford for more than two years. "We're now at the stage where we have a vaccine we can produce on a commercial scale," said Povey. Langford will submit final



There is now a vaccine to control the major disease affecting feedlot cattle.

licensing documentation to Agriculture Canada within the next couple of months. He said the vaccine Presponse should be available to producers this fall.

The proposed move into the U.S. market represents a new venture for Langford and for Canada, said Povey. About 80 per cent of the

vaccines used in animals in this country are imported from the United States. Said Wilkie: "It's been a long time since Canadian researchers, a Canadian company and the Canadian research funding system have done something that will impact so significantly on the cattle industry." O

## Principal researchers behind the vaccine

Drs. Patricia Shewen, Bruce Wilkie and Charles Povey are the principal researchers involved in the discovery of the vaccine to control shipping fever.

Shewen, an associate professor in Veterinary Microbiology and Immunology (VMI), received her DVM in 1975 and her PhD in 1982, both from U of G. Her research concerns immunity and immune response to infectious agents in diseases of animals of economic importance, particularly cattle.

Wilkie is professor and chair of VMI and director of Guelph/Waterloo Biotech's Animal Biotechnology Centre, a collaborative research program of the Universities of Guelph and Waterloo. He received his DVM from U of G in 1965 and his PhD from Cornell University in 1971. He is chair of the veterinary immunology committee of the International Union of Immunological Societies and has been an external reviewer for Canadian and U.S. granting agencies for scientific research. His research concerns genetic control of immune response and disease resistance in swine and cattle.

Povey is president and chief executive officer of Langford Inc., Guelph. He received his Bachelor of Veterinary Science and PhD degrees at the University of Bristol, England, in 1966 and 1970, and in 1981 was made a Fellow of the Royal College of Veterinary Surgeons. From 1974 to 1985, he was on faculty at the OVC, working in the Departments of Clinical Studies and VMI. His awards include the American Veterinary Medical Association's Ralston Purina Small Animal Research Award for outstanding research in the area of virology.

Povey's primary research has been in viral-induced respiratory disease of cats, caliciviruses of all species and parvovirus infections in dogs, cats and cattle. He is former chair of the calicivirus team in the United Nations World Health Organization/Food and Agriculture Organization program in comparative virology, and he is currently corresponding adviser on caliciviruses to the World Health Organization.

Povey is author of *Infectious Diseases of Cats* and author and co-author of 63 refereed publications and 25 chapters in scientific texts. O



Celebrating a milestone in U of G research achievement, left to right, Dr. Charles Povey, Prof. Patricia Shewen, Frank Oberle, minister

of state for service and technology, Prof. Bruce Wilkie and MP Bill Winegard.

Photo by Herb Rauscher, Photographic Services



# Faculty challenge questionable international project

by Marla Stewart

The President's Advisory Committee on Social Responsibility examined some of the ethical considerations for University involvement in international development and research projects at an open hearing March 10.

Among those who presented their opinions at the forum was Prof. John McMurtry, Philosophy, who opposes U of G's involvement in the Sulawesi Project in Indonesia. (See "Forum," page 4.) Although those involved in the project say it is benefiting local people in Sulawesi, McMurtry suggested that "no substantiating scholarly evidence has been produced to support (those claims)." He is concerned that the project may be supporting the government — "a government which has a long and continuous proven record of civilian massacre . . . and repression of human rights" — rather than the inhabitants.

"Claims of fact without any firm evidence," he said, violate social responsibility requirements and "abdicate the very principles of learning and knowledge upon which this University is founded." In addition, he suggested the academic process is being corrupted because many people who have expertise in international development and related areas have been excluded from decision making. And he said he knows of U of G faculty and staff who oppose the project but "are afraid of reprisals and afraid to speak out."

McMurtry made three recommendations to the committee. He suggested a cross-section of Indonesian people should be questioned to determine whether they believe they are being assisted by the Sulawesi project. As well, he believes someone outside of the University setting should be appointed to act as an independent assessor of the project. Finally, he said an annual cost-accounting report should be implemented and open to inspection to Guelph faculty and students.

Prof. Bill Graf, Political Studies, agreed with McMurtry. (See "Forum," page 4.) He suggested that since \$12 million flow into University coffers because of the Indonesian involvement, "a whole range of vested interests in this University community don't want to see it rolled back." He said the "aura of secrecy and furtiveness that surrounds the project should be done away with," and replaced with a more open dialogue.

Of about 125 Third World states with whom the University could be involved, Graf said, "I can think of about 123 I'd rather be involved in than Indonesia."

Other speakers at the forum included Henry Kock, plant propagator at The Arboretum, who expressed "deep concerns relating to agricultural practices that are permitted by this University." Kock also questioned industry ties to University programs. "If ties to profit-oriented industry prevent change in education and practice, how can there be progress?" he wondered.

The forum's final speaker was Dan Friesen, representing the South African Interest Group. Friesen said the University has "gone nowhere"

in the issue of divestment in South Africa. "It's a disgrace that we can't take the lead in South Africa," he said, referring to action taken by other universities, including Toronto, McGill and Carleton.

Following the meeting, Dale Lockie, secretary of the advisory committee, said the comments made at the forum "will definitely be taken into consideration" when the committee drafts its recommendations to the president. Prof. Bill Hughes, Philosophy, the committee chair, said McMurtry and Graf had "some quite useful suggestions and comments" with regard to Sulawesi, but that the committee lacks first-hand evidence of questionable practices. "I'm quite happy to receive any hard evidence of abuses and I think the committee would act on those if they ever came up," he said. ○

## Meet the candidates

The University community is invited to attend two informal meetings to meet the candidates for the position of associate vice-president, academic.

Prof. Norman Gibbins, Microbiology, and Prof. Ernest Dalrymple-Alford, acting associate vice-president, academic, are candidates for the position, says selection committee chair, Vice-President, Academic, Jack MacDonald.

The meetings are an opportunity to exchange views, explore issues and hear the candidates' views on the topic: "What are the important issues in the University as we move towards 2000 and what is the role of senior academic administrators in dealing with these issues?" The candidates will also be meeting with students, academic administrators and other appropriate individuals, says MacDonald.

The meeting with Gibbins is March 30 at 10 a.m.; the meeting with Dalrymple-Alford is April 5 at 3 p.m. Both meetings are in Room 103 of the University Centre.

The selection committee would like to receive comments on the candidates before April 13, says MacDonald. ○

## Regional science fair

More than 250 students are expected at the 15th annual Waterloo-Wellington Science and Engineering Fair at Bluevale Collegiate in Waterloo April 6 to April 9. The participants from schools in Wellington County and Waterloo region range in age from 12 to 19.

The award of excellence winner and four other top entrants will win a trip to the Canada-Wide Science Fair in Winnipeg May 15 to May 21.

The displays will be on view to the public April 8 from 6:30 p.m. to 8:30 p.m. and April 9 from 1 p.m. to 2:30 p.m. An awards ceremony follows the Saturday open house. ○

## At Guelph

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At Guelph is guided by an editorial policy approved by the president of the University. A copy is available on request.

Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items, speeches, faculty and staff activities, and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified.

Stories may be reprinted with acknowledgment of source.

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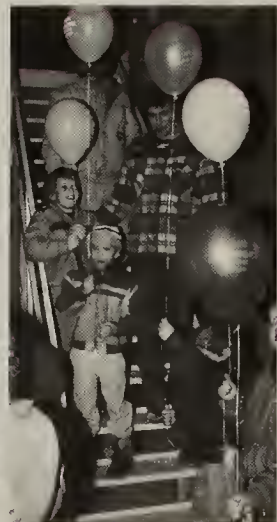
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## NO AT GUELPH MARCH 30

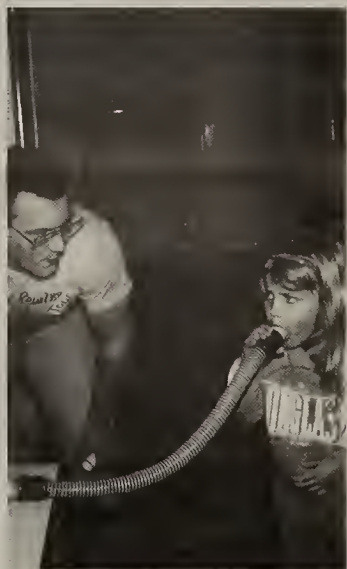
At Guelph will not be published March 30. If you have any special publicity problems because of this cancellation, please give us a call at Ext. 3864. ○

# College Royal and Open House, 1988



College Royal and Open House Weekend March 11-13 attracted almost 30,000 visitors, despite a Saturday ice storm. Clockwise: balloons for children at the School of Engineering; student Todd Bryant, Human Kinetics, helps Erica Clausen, 4, test her lung volume at the School of Human Biology display; making new friends at Old MacDonald's Farm, OVC; and the fashion show, featuring clothes made and modelled by U of G students.

Photos by Joanne Walters, Alumni Affairs and Development



## Visiting Professor

Dr. James M. Suttie of the Invermay Agricultural Research Centre in Mosgiel, New Zealand, will be a visiting scientist in the Department of Zoology from April 5 to April 8.

His research topics include reproduction and nutrition of ruminants, particularly deer, as well as the investigation of neuronal and endocrine mechanisms regulating antler cycle.

While here, Suttie will give two seminars: "Deer Farming in New Zealand: Meat and Antler Production," April 5, 7 p.m. in Room 141 of the Department of Animal and Poultry Science, and "Photoperiodic Regulation of LH and its Role in the Deer Antler Cycle," April 7, 4 p.m., in Room 306 of the Department of Animal and Poultry Science.

Anyone wishing to meet Suttie should contact Prof. George Bubenik, Zoology, Ext. 8786 or 6093. ○



## Focus on the environment

The University is putting together a second supplement to run in the *Globe and Mail* in April. The focus of this issue is the environment.

Any faculty members working in this area who have research that would be of interest to the general public are asked to call Ann Middleton, Public Relations and Information, Ext. 8705. ○



# Report on Senate

## Some tough planning decisions ahead

U of G's proposed \$123-million 1988/89 operating budget is expected to go to Board of Governors for approval March 17. Senate received the *Report of the Committee on University Planning on the University's 1988/89 Budget* for information March 15. It was to be forwarded to the Board of Governor's finance committee, which will take it to B of G for approval. The University has budgeted for a projected \$900,000 deficit as of April 30, 1989. (See *At Guelph* March 9.)

Committee on University Planning (CUP) chair, Prof. Bev Kay, Land Resource Science, introduced the budget, which was generally well-received by senators. He noted that when last year's budget was introduced, it had an across-the-board cut to all units and projected a significant deficit. "It was definitely a poor man's budget — a budget that made us wonder whether or not a number of units would go the year without shoes," he said. "There are no across-the-board cuts this year, but it is not a rich man's budget," he said. "Units will be able to wear shoes, but some shoes are going to get very thin on the soles."

Kay and other senators complimented the people who assembled the budget and made it relatively easy to understand.

Charles Ferguson, vice-president, administration, led senators through the budget, responded to Prof. Susan Pfeiffer, Human Biology, who sought details for new funding to Public Relations and Information and answered questions by Profs. Bill Smith, Mathematics and Statistics, and Nigel Bunce, Chemistry and Biochemistry, about funds to the Department of Alumni Affairs and Development for *The Campaign* and reduced support for Computing Services and renovations.

Ferguson also presented the break-even \$28-million operating budget for the Ontario Ministry of Agriculture and Food (OMAF) contract. To balance the OMAF budget, the deans whose colleges are involved in the contract had to make reductions by introducing spending restraints in Research Station services, pulling back money from the Equine Research Centre and reducing personnel costs, mostly achieved through resignations and retirements. Because the increase to the annual grant has not kept pace with the amount of money put into salaries, an ever-increasing amount of the OMAF money has gone into salaries, he said. "It has got to the point where it is very difficult for individuals to operate because they don't have operating dollars. We have, therefore, begun to reduce the number of positions so there will be operating dollars for those positions that are in the budget."

Kay said CUP was pleased to see a \$180,000 increase to the library for the acquisitions budget. Of that amount, however, \$140,000 will be used to cover the increase in costs of serials this year. And another \$55,000 would still be needed to restore the acquisitions budget to the 1986/87 level, said Kay. An ad hoc committee continues to look at the problem of how to deal with rapidly escalating costs in the acquisitions budget, he said. "This year's adjustment in the budget is appreciated, but it is not solving the problem," he said. CUP also commented on the \$100,000 allocated to the internal review process, said Kay. "It is not a major sum of money, but it is a plus to see a line item in the budget for use to help resolve problems that may be identified by the process." CUP also had considerable discussion on the reduction of support to central computing. Vice-President, Academic, Dr. Jack MacDonald presented figures showing that the institution's commitment to its information technology goals remains high. Over the past four years, U of G has spent almost \$7 million on computing equipment — \$1.5 million on various non-central computing facilities and \$5.5 million for 1,500 microcomputers. "The University has, on average, purchased one microcomputer per day, including Saturdays and Sundays, for every day of the last four years," said MacDonald. These commitments are additional to the continuing annual support of approximately \$1 million for the central computing facility, hardware, software and maintenance charges, he said.

A discussion followed on the budget implications of increased enrolment. Applications to U of G this fall have increased by about 1,800 students. Of these, 60 per cent are Semester 1 students seeking admission to co-op programs. Each unit will have to decide, largely on the basis of its own resources, how many students it can accommodate, including those units that have co-op programs, said MacDonald. Acting Associate Vice-President, Academic, Ernest Dalrymple-Alford, said this fall will be the first time U of G is admitting students into a co-op program at the Semester 1 level. This requires some fresh ways of thinking, he said. "We have to determine what we can deal with and what we can accommodate, and then look for resources. The people involved in co-op are dealing with a whole set of unknowns which will be different than the increase in participation rates in programs that have been in existence for some time."

President Burt Matthews reminded senators while the University has a 29-per-cent increase in applications, "we do not have a 29-

*Continued on page 6.*

Summary of 1988/89 operating budget, excluding the OMAF contract, as of March 3, 1988

	Base 87/88 Budget	Base 88/89 Budget	Inflation	Budget Increases	Budget Decreases	Resignation Retirement Savings	CURRENT 88/89 BUDGET
<b>INSTITUTIONAL REVENUE:</b>							
MCU Operating Grant	81,404	81,404	4,049	0	0	0	85,453
Tuition Fees	17,180	17,180	751	0	0	0	17,931
OMAF Indirect	7,543	7,543	0	0	0	0	7,543
Interest Income	1,925	1,925	(200)	0	0	0	1,725
Excellence Fund	2,462	1,660	81	0	0	0	1,741
Faculty Renewal Fund	0	802	211	0	0	0	1,013
FAHIP Grant	3,400	3,400	800	0	0	0	4,200
Sundry	2,274	2,274	0	0	0	0	2,274
<b>TOTAL INSTITUTIONAL REVENUE</b>	<b>116,390</b>	<b>116,390</b>	<b>5,492</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>121,882</b>
<b>INSTITUTIONAL COSTS:</b>							
<b>TOTAL TEACHING UNITS</b>	<b>64,591</b>	<b>64,880</b>	<b>660</b>	<b>143</b>	<b>(600)</b>	<b>(400)</b>	<b>64,691</b>
<b>TOTAL ACADEMIC SERVICES</b>	<b>10,263</b>	<b>10,341</b>	<b>0</b>	<b>52</b>	<b>0</b>	<b>(19)</b>	<b>10,374</b>
<b>COMPUTER &amp; COMM. SERVICES</b>	<b>5,502</b>	<b>5,530</b>	<b>0</b>	<b>140</b>	<b>(600)</b>	<b>(11)</b>	<b>5,059</b>
<b>TOTAL STUDENT SERVICES</b>	<b>2,781</b>	<b>2,806</b>	<b>0</b>	<b>67</b>	<b>(5)</b>	<b>(13)</b>	<b>2,855</b>
<b>TOTAL ADMINISTRATION</b>	<b>6,785</b>	<b>6,835</b>	<b>0</b>	<b>22</b>	<b>(50)</b>	<b>(33)</b>	<b>6,774</b>
<b>PHYSICAL RESOURCES OPERATIONS</b>	<b>14,644</b>	<b>14,697</b>	<b>0</b>	<b>0</b>	<b>(95)</b>	<b>(4)</b>	<b>14,598</b>
<b>ALUMNI AFFAIRS</b>	<b>1,262</b>	<b>1,269</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,269</b>
<b>INFORMATION SERVICES</b>	<b>514</b>	<b>510</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>618</b>
<b>LIBRARY - ACQUISITIONS</b>	<b>2,134</b>	<b>2,134</b>	<b>0</b>	<b>180</b>	<b>0</b>	<b>0</b>	<b>2,314</b>
<b>UTILITIES</b>	<b>3,737</b>	<b>3,737</b>	<b>0</b>	<b>0</b>	<b>(200)</b>	<b>0</b>	<b>3,537</b>
<b>RENOVATIONS</b>	<b>606</b>	<b>606</b>	<b>0</b>	<b>20</b>	<b>(200)</b>	<b>0</b>	<b>426</b>
<b>UNIVERSITY GENERAL EXPENSE</b>	<b>2,347</b>	<b>2,347</b>	<b>0</b>	<b>0</b>	<b>(100)</b>	<b>0</b>	<b>2,247</b>
<b>UNIVERSITY RESERVES</b>	<b>1,223</b>	<b>923</b>	<b>0</b>	<b>160</b>	<b>(100)</b>	<b>0</b>	<b>1,003</b>
<b>RESPONSE TO INTERNAL REVIEW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>100</b>
<b>EDUCATION ENHANCEMENT FUND</b>	<b>0</b>	<b>420</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>420</b>
<b>RESEARCH ENHANCEMENT FUND</b>	<b>1,092</b>	<b>1,092</b>	<b>81</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,173</b>
<b>INFLATION RESERVE</b>	<b>0</b>	<b>0</b>	<b>5,624</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,624</b>
<b>TOTAL INSTITUTIONAL COSTS</b>	<b>117,481</b>	<b>118,135</b>	<b>6,373</b>	<b>1,004</b>	<b>(1,950)</b>	<b>(460)</b>	<b>123,082</b>
<b>NET OPERATING COSTS</b>	<b>(1,091)</b>	<b>(1,745)</b>	<b>(881)</b>	<b>(1,004)</b>	<b>1,950</b>	<b>460</b>	<b>(1,200)</b>
<b>APPROPRIATIONS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>PLANNED CAMPAIGN RECOVERY</b>	<b>300</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300</b>
<b>PROJECTED SURPLUS/DEFICIT</b>	<b>(791)</b>	<b>(1,445)</b>	<b>(881)</b>	<b>(1,004)</b>	<b>1,950</b>	<b>460</b>	<b>(900)</b>

Detail by division, 1988/89 operating budget, excluding the OMAF contract, as of March 3, 1988

	Base 87/88 Budget	Base 88/89 Budget	Inflation	Budget Increases	Budget Decreases	Resignation Retirement Savings	88/89 Projected Budget
<b>INSTITUTIONAL REVENUE:</b>							
<b>TOTAL INSTITUTIONAL REVENUE</b>	<b>116,390</b>	<b>116,390</b>	<b>5,492</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>121,882</b>
<b>INSTITUTIONAL COSTS:</b>							
ARTS	7,463	7,516				(43)	7,465
CBS	9,130	9,196	42			(86)	9,006
FACS	4,105	4,133				(86)	4,067
OMAF	10,529	10,612	42			(142)	10,414
OVC	13,478	13,557	584			(43)	14,097
CPS	9,736	9,760				(43)	9,677
CSS	7,766	7,831				(43)	7,768
CONF. ED. & PARTIME	1,167	1,175				(20)	1,165
OTHER TEACHING	423	303				(209)	353
RURAL PLANNING & DEV.	794	799				50	799
<b>TOTAL TEACHING UNITS</b>	<b>64,591</b>	<b>64,880</b>	<b>660</b>	<b>143</b>	<b>(800)</b>	<b>(400)</b>	<b>64,691</b>
LIBRARY - OPERATIONS	4,486	4,529				(9)	4,520
OFFICE OF RESEARCH	1,269	1,258				(8)	1,250
O. OF EDUC. PRAC.	1,224	1,231				10	1,241
REGISTRAR	2,124	2,137				42	2,177
GRAD. STUDIES	630	632				(2)	632
OTHER SERVICES	550	554					554
<b>TOTAL ACADEMIC SERVICES</b>	<b>10,263</b>	<b>10,341</b>	<b>0</b>	<b>52</b>	<b>0</b>	<b>(19)</b>	<b>10,374</b>
<b>COMPUTER &amp; COMM. SERVICES</b>	<b>5,502</b>	<b>5,530</b>	<b>0</b>	<b>140</b>	<b>(600)</b>	<b>(11)</b>	<b>5,059</b>
<b>STUDENT SERVICES</b>	<b>2,781</b>	<b>2,806</b>	<b>0</b>	<b>67</b>	<b>(5)</b>	<b>(13)</b>	<b>2,855</b>
<b>ADMIN. SERVICES</b>	<b>1,962</b>	<b>1,976</b>	<b>0</b>	<b>22</b>	<b>(50)</b>	<b>(19)</b>	<b>1,925</b>
<b>EXECUTIVE OFFICES</b>	<b>2,901</b>	<b>2,923</b>	<b>0</b>	<b>22</b>	<b>(50)</b>	<b>(22)</b>	<b>2,923</b>
<b>FINANCIAL SERV.</b>	<b>1,922</b>	<b>1,936</b>	<b>0</b>	<b>22</b>	<b>(50)</b>	<b>(10)</b>	<b>1,926</b>
<b>TOTAL ADMINISTRATION</b>	<b>6,785</b>	<b>6,835</b>	<b>0</b>	<b>22</b>	<b>(50)</b>	<b>(33)</b>	<b>6,774</b>
<b>PHYSICAL RESOURCES - OPS</b>	<b>14,644</b>	<b>14,697</b>	<b>0</b>	<b>0</b>	<b>(95)</b>	<b>(4)</b>	<b>14,598</b>
<b>ALUMNI AFFAIRS</b>	<b>1,262</b>	<b>1,269</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,269</b>
<b>INFORMATION SERVICES</b>	<b>514</b>	<b>510</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>618</b>
<b>LIBRARY - ACQUISITIONS</b>	<b>2,134</b>	<b>2,134</b>	<b>0</b>	<b>180</b>	<b>0</b>	<b>0</b>	<b>2,314</b>
<b>UTILITIES</b>	<b>3,737</b>	<b>3,737</b>	<b>0</b>	<b>0</b>	<b>(200)</b>	<b>0</b>	<b>3,537</b>
<b>RENOVATIONS</b>	<b>606</b>	<b>606</b>	<b>0</b>	<b>20</b>	<b>(200)</b>	<b>0</b>	<b>426</b>
<b>UNIVERSITY GENERAL EXP.</b>	<b>2,347</b>	<b>2,347</b>	<b>0</b>	<b>0</b>	<b>(100)</b>	<b>0</b>	<b>2,247</b>
<b>UNIVERSITY RESERVES</b>	<b>1,223</b>	<b>923</b>	<b>0</b>	<b>160</b>	<b>(100)</b>	<b>0</b>	<b>1,003</b>
<b>RESPONSE TO INTERNAL REVIEW</b>	<b>0</b>	<b>420</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>100</b>
<b>EDUCATION ENHANCEMENT FUND</b>	<b>1,092</b>	<b>1,092</b>	<b>81</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,173</b>
<b>RESEARCH ENHANCEMENT FUND</b>	<b>0</b>	<b>0</b>	<b>5,624</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,624</b>
<b>TOTAL INSTITUTIONAL COSTS</b>	<b>117,481</b>	<b>118,135</b>	<b>6,373</b>	<b>1,004</b>	<b>(1,950)</b>	<b>(460)</b>	<b>123,082</b>
<b>APPROPRIATIONS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>PLANNED CAMPAIGN RECOVERY</b>	<b>300</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300</b>
<b>PROJECTED SURPLUS/DEFICIT</b>	<b>(791)</b>	<b>(1,445)</b>	<b>(881)</b>	<b>(1,004)</b>	<b>1,950</b>	<b>460</b>	<b>(900)</b>

Summary of division targets, 1988/89 OMAF contract as of March 1, 1988

	87/88 CURRENT BUDGET	88/89 BASE BUDGET	INFLATION ASSUMPTIONS	RESIGN. & RETIREMENT SAVINGS	BASE REDUCTION	FINAL 88/89 BUDGET
<b>CONTRACT REVENUE</b>						
Direct Costs	18,842	18,842	1,298	0	0	20,140
Service Costs	7,544	7,544	21	0	0	7,586
<b>TOTAL CONTRACT REVENUE</b>	<b>26,386</b>	<b>26,386</b>	<b>1,319</b>	<b>0</b>	<b>0</b>	<b>27,726</b>
<b>CONTRACT EXPENSES</b>						
ARTS	57	62	0	0	(13)	61
CBS	730	730	0	(17)	(11)	702
FACS	63	86	0	0	(11)	65
OAC	12,718	12,635	0	(70)	(221)	12,345
OVC	3,788	3,596	0	(15)	(63)	3,518
CPS	65	54	0	0	(1)	53
CSS	58	54	0	0	(1)	53
CONF. ED. & PARTIME	229	229	0	(5)	(6)	218
<b>TOTAL TEACHING UNITS</b>	<b>17,706</b>	<b>17,426</b>	<b>0</b>	<b>(107)</b>	<b>(305)</b>	<b>17,015</b>
Research Station Services	598	897	0	(3)	(11)	883
Guelph Equine Centre	155	21	0	0	(1)	20
Penrose Research Station	150	0	0	0	0	150
Director's Office Services	609	430	0	0	(3)	427
SERVICE COST REDUCTION	0	0	356	0	0	356
SERVICE COSTS	7,544	7,544	21	0	0	7,565
INFLATION RESERVES	44	44	1,246	0	0	1,290
<b>TOTAL CONTRACT EXPENSES</b>	<b>26,856</b>	<b>26,512</b>	<b>1,623</b>	<b>(110)</b>	<b>(320)</b>	<b>27,706</b>
<b>CURRENT SURPLUS (DEFICIT)</b>	<b>(\$500)</b>	<b>(126)</b>	<b>(304)</b>	<b>110</b>	<b>320</b>	<b>0</b>
<b>86/87 SURPLUS</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL SURPLUS (DEFICIT)</b>	<b>0</b>	<b>(126)</b>	<b>(304)</b>	<b>110</b>	<b>320</b>	<b>0</b>



## Silence surrounds Sulawesi question

It has now been two months since the publication of Prof. John McMurry's indictment of this University's involvement in the Sulawesi Project (*At Guelph*, Jan. 20, 1988). As a faculty member deeply concerned with development ethics, I had hoped for an equally serious response from those involved in the formulation and execution of the project. That reply has not been forthcoming.

Indeed, the information I have, both direct and secondhand, is that the responsible officials do not deign to reply, mainly on the grounds that the Sulawesi Project somehow justifies itself and, in any case, is so far advanced as to be irreversible.

Beyond the inner circle of instigators and managers, moreover, there is an ever-increasing number of University employees and contractors — technicians, experts, faculty, advisers, administrators, etc. — who have directly benefited from their association with the project, in the form of release time, opportunity for reports and publications, substantial travel allowances, good salaries, generous fringe benefits, brownie points for merit ratings, impressive entries for c.v.'s and much more. It is more than a little surprising that not one of them has troubled to reply to the issues raised by McMurry.

Considering all this, it is surely symptomatic that the sole response (*At Guelph*, Feb. 10) has come from a faculty member once only peripherally concerned with the project, but since then a full member of the Sulawesi team, at present conducting field work in that unhappy corner of Asia. Prof. Hans Bakker's letter is both a welcome contribution to the debate and, by its existence, a reproach to those who owe an accounting to the University community.

The gist of Bakker's argument and, so far as one can infer, the rationale for the University's collaboration with one of the world's most oppressive regimes, is that, by being there, we can at least prevent the worst abuses and ensure that the poorest people receive some tangible benefits. And that if we don't carry out the project, someone else will. He frames his argument with nearly irresistible pathos: the Sulawesi project ensures that "children who otherwise might not receive any education are more likely to be able to learn to read and write. Women . . . are more likely to be able to participate in local decision making." And so on.

To this, one might add that children who might have grown up in intact families are orphaned by government programs. Individuals who otherwise might have expressed their ideas publicly without fear are tortured, maimed and killed by a policy of official paranoia. Families who might have enjoyed life in an extended-family setting are torn apart and relocated in barren territory as a consequence of a bizarre relocation program. Poor people who once could live comparatively well in a subsistence economy are forcibly thrust into a distorted form of peripheral capitalism that impoverishes them even as it enriches their wealthy compatriots.

The point that needs to be made here, of course, is that it is a self-serving myth to insist that "at least we can help the poor" by delivering within a context of violent repression and gross inequalities of distribution. Precisely this kind of thinking (which also infuses the Winegard report on Canada's relations with the south) justifies continued collaboration with the most villainous of regimes.

For one, in such conditions, aid rarely reaches the poor people for whom it is ostensibly intended: it is mainly appropriated by the local elites who thus improve their power position vis-à-vis the poor. Besides that, and more importantly, a growing body of literature on human rights and development clearly shows that certain human rights are absolutely fundamental in the sense that no other rights can be enjoyed unless they are first established and universally available. These rights include freedom from arbitrary arrest and execution, freedom from detention without trial, freedom from torture and right to subsistence. As they are precisely the same rights that the Suharto regime systematically denies its people, they more than offset the minor material concessions that such projects as Sulawesi force it to make.

In this context, our aid efforts do, in fact, legitimize the regime, as McMurry argues, and exacerbate the wretched state of the poor. If Western aid to Indonesia, including the Sulawesi Project, were to cease, domestic pressures for the fulfilment of basic human needs and fundamental civil liberties would increase correspondingly. Perhaps the regime would

react in the short term with more repressive measures; perhaps it would not. But in the long term, there would have to be reforms and redistribution. This is the same rationale that underpins Canadian sanctions towards South Africa — a far less oppressive regime than Suharto's Indonesia.

Thus, there is no choice between the ethics of responsibility and the ethics of ultimate values, as Bakker seems to believe. They are one and the same.

In any event, even if denying Indonesia all foreign aid were to prove utterly without effect, there are still compelling moral reasons for doing so that relate to our self-conception as a university in a democratic society. In a recent article, Robert Matthews and Cranford Pratt write that "public expression of our hostility to the policies of a repressive regime is desirable as a reaffirmation of our fundamental values, even when it seems clear that the statement will have little or no effect on that regime. In practical terms as well, our initiative might stimulate others to act in a similar fashion."

We should also consider why, in whose interest and at whose behest we are so deeply involved in a project that stands accused of being morally indefensible and opportunistic. During the 1980s, Canadian trade with Asia caught up to, then overtook, trade with Western Europe, so that by 1985, Asia and the Pacific Rim had become our second most important market after the United States. In 1986, exports from Canada to Indonesia alone were \$240.01 million, and the trade flow into Canada was \$113.06 million.

Canadian corporations are thoroughly involved in this lucrative market: INCO with its now temporarily inactive mines in Sulawesi itself, C.P. Consulting Services with the Indonesian state railway project, Tecsalt with a massive hydroelectric project, Lavalin with ports development schemes, Monenco with a generating station and irrigation production, and Hatch Associates with the steel industry. At the same time, the Canadian government finds Indonesia a lucrative market for its surplus wheat. All these transactions were facilitated by some \$77.49 million in bilateral "development aid" to Indonesia, a comfortable 22 ratio of ODA to total trade.

Precisely this nexus between political interests, business profits and foreign "aid" defines the role of this University in Sulawesi. Indeed, the chief executive officer in the field from 1984 to 1987 well symbolized this nexus. He had begun his career as an official of the Canadian Embassy in Jakarta, moved to INCO, where he acted as a field officer, and finally gravitated into the position at the University.

The project itself was concocted by the Indonesian government's provincial development planning board, submitted to the Canadian International Development Agency and contracted out to this University as a mere executing agency with restricted mandate to furnish (a) technical assistance in support of institutional strengthening, and (b) rural and regional development.

What (a) seems to imply is a technocratic view of the development process that ignores or even discourages any grassroots participation by those most affected by the project. By all accounts, practically every interaction "in the field" takes place between our experts and administrators on the one hand and, on the other, a venal and corrupt, as well as centrally appointed and arrogant class of petty bourgeois Indonesian administrators whose sole responsibility is to the next highest level of patronage.

Objective (b) appears even more invidious. A central part of "integrated rural development," in the Sulawesi context, is transmigration — a process that once served the ends of Dutch colonialism and has continued since independence. As practised by the Suharto regime, transmigration involves the often brutal and usually coerced removal of people from population centres such as Java to more remote areas like Sulawesi. Not only are these transmigrants dumped into unprepared, uninhabitable or infertile areas with little or no infrastructures, the process has been shown to cause dreadful hardships and deaths, the breakup of families and the disruption of whole societies and cultures. It is also a standard means of scattering and liquidating individuals, groups and indeed whole ethnic groups who are perceived as "oppositional." More and more international observers such as Amnesty International speak of "genocide."

Thus transmigration, as a mere euphemism

for forcible dislocation, is at the very core of our Sulawesi project and, as such, debases and discredits the whole concept of integrated rural development. For what is here being integrated are the common interests of the Indonesian state exploiting class, certain rapacious sectors of Canadian business and the commercial-political parts of the Canadian state. In this scheme of things, the University, with its concept of integrated rural development, mediates between the Indonesian petty officials (whom it trains better to administer exploitation) and the Indonesian poor (to whom it attempts to make the fact of poverty and the burden of oppression more palatable).

Perhaps inadvertently, the University has been made the final link in a long chain of vested interests. The \$14-million or so that annually accrues to it no doubt helps to assuage any moral scruples that might have arisen.

What is perhaps most instructive about this "discussion" on Sulawesi — one-sided as it so far is — is that it is taking place now, four years into the project, rather than before it began.

## Safeguards required for international projects

The problem that confronts us with the Sulawesi project is that the University is receiving many millions of dollars from its active collaboration in technical planning assistance with a government that has a long and continuous proven record of civilian massacre, totalitarian repression of civil rights, systematic torture and imprisonment of dissenters and their families, often forcible relocation of hundreds of thousands of its poorer inhabitants annually, genocidal invasion of tribal and ethnic minority regions, large-scale environmental destruction, and systematic corruption by leadership bribery and theft of public funds.

U of G personnel and offices involved in the provision of this technical planning assistance, and benefiting professionally from it, argue in general that the assistance they provide to the Indonesian government is helping people in need in the Third World, or, more specifically, in accordance with *Senate Guidelines on University Involvement in Development Assistance Projects in Foreign Countries*, provides "beneficial consequences for the local inhabitants."

The reason that this claim does not mitigate the problem is that no substantiating scholarly evidence has been produced to support it. When this lack of supporting evidence is taken together with the fact that the U of G team is operating in a merely "advisory" function to the government of Indonesia, which may use the University's technical planning facilitation however it chooses (for example, to further control and oppress its population), the problem reasserts itself more disturbingly still. That the phrase "like jumping on a moving train" has been agreed to by those associated with the project as an accurate depiction of their role confirms the essentially subordinate capacity they fill in their relationship of assistance to the government of Indonesia. It implies that the direction, speed, mode, timetable and destination of the project has been determined already, leaving the University's representatives with no independent capability to ensure that their work in fact benefits the local inhabitants of Indonesia, rather than the government's power to oppress them.

In order to ensure that U of G is not selling its services for financial gain in such a way as to provide further administrative power and authority to a government with a gross record of human rights violations, possibly the very worst in the world, the University requires some precautionary measures. Mere rhetoric of good intentions without evidence to confirm them will not do, nor will self-serving avoidance of the problems resolve them. Yet it is difficult to discern that any other response from those involved in the Sulawesi project has been forthcoming. The University needs to know what are the effect of its representatives' work in Indonesia and what are the effects of the overall program in which its work is playing a supporting role. To this point, the relevant University offices and personnel have established no method whatever of objectively evaluating the consequences of either their operations, or of the larger regional operations within which their minor planning functions are set. Without some reliable accountability for its claims of

Again, it admonishes against an all too narrow, technocratic concept of development and development aid that is indifferent towards the moral and ethical dilemmas it necessarily raises. It shows that we must place the political, social, economic and cultural dimensions at the outset of our international development work, both at home and abroad.

If this were done, even retrospectively, the one clear moral imperative that emerges from the available evidence is that of outright subversion. In the context of Suharto's Indonesia, "subversion" has to mean the transfer of power and wealth from the oppressing elites to the popular classes. If our institutional involvement in Sulawesi is not furthering that process — and it would seem that it is not — then we ought not to be there. Under the circumstances, our principled withdrawal is of far greater benefit to the Indonesia poor and powerless — as well as to our own self-esteem — than our continued presence.

Prof. Bill Graf,  
Political Studies.

assistance to international development, the Sulawesi project puts U of G in danger of violating not only the social responsibility requirements of its constitutional aims and objectives, but of abdicating the very principles of learning and knowledge upon which the University is founded. Claims of fact without any firm evidence to support them are not acceptable in the University milieu, and yet it is precisely such claims that the University seems now to be accepting in the case of the Sulawesi project's supposed assistance to international development and the local inhabitants of Indonesia.

The only way to ensure that U of G is, in truth, assisting the inhabitants and the development of Indonesia, rather than a tyrannical and murderous government, is to establish reliable means of monitoring, verifying and evaluating the Sulawesi project's operations. Such evidence and judgment would see to require: (1) recording, under conditions of strict confidentiality, the responses of an adequate cross-section of the local Indonesian people, other than government personnel, to discover whether and why they agree or do not agree that they are being assisted by the Sulawesi project, (2) appointing someone outside the University with appropriate qualifications in international development and international human rights activity to act as an independent, external assessor of the Sulawesi project as a provider of beneficial consequences to the local inhabitants, and (3) precise and detailed cost-accounting of the activities pursued and \$12 million (or more) spent on the Sulawesi project, open to inspection by U of G faculty and students, and published annually.

These safeguards of academic standards and responsibility are more or less normal in the regular University process. Failing discontinuance of the Sulawesi project for its serious compromises of the University's moral integrity, these safeguards, at least, are essential if U of G is not to be irreparably damaged in its reputation for social responsibility and concern for truth.

Prof. John McMurry,  
Philosophy.

*Editor's Note: This article was McMurry's presentation to the March 10 meeting of the President's Advisory Committee on Social Responsibility. He submitted it for publication in At Guelph.*

## Appointments

Dr. Diane Dupont of the department of economics at the University of British Columbia will join the Department of Agricultural Economics and Business Aug. 1 as assistant professor.

Fiona Tetlow of Cambridge has joined the Budget Office as budget analyst.

Kathy Kennedy is the new program assistant in the development education program, Centre for International Programs, succeeding Ricardo Ramirez. □



# World conference planned on ethical choice in age of technology

Plans for a major international conference on the relationships between technology and social values — the "World Conference on Ethical Choice in the Age of Persuasive Technology" — were unveiled at Senate March 15 by chair Prof. Henry Wiseman, Political Studies.

The conference will be the third in a series of international conferences at U of G, administered from the Office of the Vice-President, Academic, that focus on critical issues affecting the future of humankind. The first conference, held in 1983, was "Strategies for Peace and Security in a Nuclear Age." It captured worldwide media attention when then prime minister Pierre Trudeau outlined his personal agenda for peace initiatives. The second conference, "Science and Technology in the World Food Crisis," held in 1986, drew Alexander King, president of the Club of Rome, as keynote speaker.

Wiseman invited all faculty to offer co-operation, insight and ideas for the conference that will pose — not answer — such fundamental questions as: "Shall we trust our future in the genius of technological invention through mechanistic design or will society determine the social values and chart the course so that technologies will truly serve the needs of humanity at large?"

The conference, which has generated good support and a lot of excitement, said Wiseman, will examine the historical, contemporary and future impact of technologies on social values, structures and processes, and quality of life in its spiritual, intellectual, ethical and material aspects. It will bring together people from around the world to discuss courses of action and management strategies and make recommendations for our common future, he said. "Our concern is not merely to understand and appreciate past and possible future choices and their consequences, but to assess the choices regarding diverse technologies and their consequences in bioethics, medicine, the media, communications, governmental policies, industrial innovation, international development, East/West relations, peace and security and other areas of professional and individual, social, educational, economic and political concerns," he said. "In short, we are looking to substantive guidelines for future planning and action."

Interested faculty should contact Wiseman at Ext. 3535. ○

## Discretionary funds earmarked for research, teaching support

Discretionary funds totalling over \$1.7 million are earmarked in the University's 1988/89 operating budget for research and teaching support.

Several changes have been made this year to the allocation process for these funds, says Vice-President, Academic, Dr. Jack MacDonald. The changes simplify the allocation process and address specific areas of need.

The money is in two funds — the Research Enhancement Fund and the Education Enhancement Fund. They replace the Research Excellence Fund, the President's Special Fund and the New Initiatives Fund.

The \$1.179-million research enhancement fund, consisting of an infrastructure component and a projects and equipment component, is a modified version of last year's research excellence fund. Some \$429,000 of the fund is already allocated for carry-over commitments, leaving about \$750,000 for this year, of which \$250,000 will be available for long-term research infrastructure — maintenance and operating costs of existing equipment and facilities and salaries for technical personnel whose services are used in common by a number of faculty. The remainder of the fund is for general support of research activities, including equipment needs.

Colleges are to submit applications to the infrastructure component of the research enhancement fund to the vice-president, academic, by April 15. Applications for the projects and equipment component of the research enhancement fund should be submitted by April 29 to the appropriate college dean, who will indicate college priority and forward the requests to the Office of the Vice-President, Academic, by May 6.

All research enhancement fund proposals will be reviewed by a group consisting of three faculty members, the vice-president, academic, the dean of research, the dean of graduate studies and one other faculty member selected by the group.

The \$500,000 education enhancement fund, consisting of two components — new initiatives and equipment — replaces the new initiatives and president's special funds. It is for initiatives in education, including all activities associated with or in support of undergraduate and graduate teaching, and to purchase equipment beyond available funds in operating budgets. Some \$320,000 is available for distribution in the new budget year after carry-over commitments for the new initiatives fund from previous years are taken into account.

Requests for the new initiatives component of the education enhancement fund should be submitted by April 15 to the Office of the Vice-President, Academic. Requests for the equipment component of the education enhancement fund should be submitted to the appropriate dean, director or unit budget head to be reviewed, ranked according to priority and forwarded to the Office of the Vice-President, Academic, by April 15.

All education enhancement fund applications will be reviewed by a group consisting of the vice-president, academic, the associate vice-president, academic, the acting provost, and representatives from the Board of Undergraduate Studies, the Board of Graduate Studies and the Senate Committee on Educational Development.

For details, contact the Office of the Vice-President, Academic, Ext. 3845.

Results will be announced in late May. ○

## Obituaries

### Jack Madden

Retired Department of Economics professor Jack Madden died at his home in Guelph March 14 after a short illness. He was 68.

Born in Leeds, England, and raised in Winnipeg, Manitoba, Dr. Madden served overseas with the R.C.A.F. from 1939 to 1945. After the war, he received his BA from the University of Manitoba, his MA from the University of Toronto and his Ph.D. from Cambridge University.

Dr. Madden began teaching at U of G in 1965. He received an Ontario Confederation of University Faculty Associations teaching award in 1974 and the University of Guelph Faculty Association college award in 1983. Dr. Madden was a founding faculty member of Wellington College and a member of Senate. The Jack Madden Medal in Economic History is presented annually to a Semester 8 student in honors economics who has maintained the highest grades in economic history.

Dr. Madden was actively involved in health care planning in both regional and federal levels, and served as economic adviser to the Hall Commission on Health Services.

He retired from the University in January 1985, but continued to teach part time at

the Universities of Guelph and Toronto.

Dr. Madden is survived by his wife, Andrea, and children Martin, Andrea, Signy and Thorburn.

Donations in his memory may be made to "The Jack Madden Memorial Fund" and forwarded to Alumni Affairs and Development, Alumni House.

### Kenric Marshall

Kenric Marshall, a well-known humanitarian who received an honorary LLD degree U of G in 1982, died March 6 in Toronto after a lengthy illness. He was 72.

Mr. Marshall was honored with a membership to the Order of Canada in recognition for his services as national director of CANSAVE and for his work with other public service agencies, including the YMCA. Many Guelph citizens will remember him as recreation director for the city from 1950 to 1955.

Mr. Marshall is survived by his wife, Barbara Howe Stewart and twins Diane Marshall and Brenda Banville. He is stepfather of Maj. Robert G. Stewart and John M. Stewart. ○

## Submissions invited for inter-college activities fund

From the Office of Research

Faculty are invited to submit applications for the Inter-College Activities Fund. The fund provides limited assistance for academic activities — symposium, seminar or conference visiting speakers — that will involve faculty and graduate and/or undergraduate students from two or more colleges for events that must be held at the University. Funding assistance is also expected from the colleges, departments or schools involved.

The level of funding will be determined by the complexity, the number of participants and the duration of the activity and the benefits that will result for research and education at the University. Funds may be used to reimburse the actual cost of travel, accommodation and subsistence for the

visiting speaker or speakers, but can't be used to pay honoraria or entertainment expenses. In special cases, funds may also be used to cover other types of expenses, but these must be itemized in the application and approved. The requests will be considered to be one-time only requests.

An activity co-ordinator will be designated for each activity. The request should include a statement about the relevance of the activity, based on the above criteria, a detailed budget for the activity, and the source of other funds that have been requested or made available.

Applications should be submitted in triplicate on forms available from the Office of Research by April 15. Awards will be announced by May 6. ○

## Showcase for plant and biotechnology research

U of G will sponsor a symposium on plant biotechnology at the 16th International Congress of Genetics in Toronto Aug. 20 to 27.

The Aug. 25 symposium will be chaired by Prof. Wally Beversdorf, Crop Science, and Ron Phillips of the University of Minnesota. It will feature Barbara Hohn from the Friedrich Miescher Institute of Basel, Switzerland, P.C. Anderson of Minnesota's Molecular Genetics Inc., Marc van Montague from the University of Ghent in Belgium and Wilf Keller from Agriculture Canada.

The University announced its decision in early February to sponsor the event, to be entitled the "University of Guelph Symposium."

The congress — initially held in 1899 as the first International Conference on Hybridization and on the Cross-Breeding of Varieties — is held every five years in a different country. The last congress was held in India; Canada hosted the event in Montreal in 1958.

The theme of this year's congress is "Genetics and the Unity of Biology." The program has been designed to attract those working in genetics, molecular biology, genetic aspects of developmental and evolutionary biology, neurobiology, immunology, oncology, medical genetics and agriculture.

As well as sponsoring the symposium in Toronto, the University will play host to delegates on two afternoons as they view and discuss Guelph's research in genetics, breeding and biotechnology. Prof. Peter Pauls, director of the Plant Biotech Centre and organizer of the tours, says he's pleased that the University is getting such international recognition. "It'll certainly showcase the University as a place where a lot of plant and biotechnology research is going on," he says.

Prof. Ken Kasha, Crop Science, was selected as program chair of the congress by the Genetics Society of Canada. His duties include co-ordinating and scheduling events, making decisions about the 49 symposia, 80 workshops and 11 plenary lectures, and helping sift through and organize the nearly 4,000 abstracts that are expected to come in for posters to be displayed during the congress.

Kasha says a number of Guelph people have been invited to organize and chair some of the symposia and workshops, "which means they have been recognized as experts in their fields."

The congress will not likely come this close again, he says, so it is a great opportunity for Guelph faculty and students to attend. It is also a good opportunity for the University to be showcased internationally, he says.

Kasha expects the Toronto congress to be the largest ever, hosting scientists from 87 countries. The largest previous congress hosted 3,500 delegates; about 6,000 are expected to come to Canada. So far, he says, more than 9,000 requests have come in for the registration booklet and program. ○



A scene from "Sticks and Stones", the final offering of Drama's 1987/88 theatre season. It's about the massacre of the Black Dnellenys of London. The play opens March 28 and runs

to April 2, beginning each evening at 8 p.m., at the Inner Stage theatre in the MacKinnon building. Tickets are on sale at the box office in the courtyard of the University Centre.



# Briefly

## Brown bag lunch films

The Professional Staff Association presents "The Secretary and Her Boss, Part 2: We Can Work it Out," the second film in the brown bag lunch film series. The film will be shown on March 31 at 12:10 and 1:10 p.m. in Room 441, University Centre.

## Romper Room and Friends

Miss Fran, Paddington Bear and Do Bee will be at War Memorial Hall March 26 at 1 p.m. and 3 p.m. Tickets are \$6.50, available at the UC box office, The Corner in Stone Road Mall, The Bookshelf Cafe and the Acton Public Library. For further information, call Anita McManama at Ext. 2896.

## Theatre in the Trees

The Arboretum presents dinner dates for *Key for Two* April 16 and 23. Dinner begins at 6 p.m.; the play begins at 8 p.m. Tickets are \$25.50 at the University Centre box office, Ext. 3940. For more information, call Ext. 2113.

## Courses available

Openings still remain in some non-credit Continuing Education courses beginning during the next few weeks. The final course in the Gardening Series is *Vegetable Gardens*, a day-long course April 16; *Advanced Lotus 1-2-3*, a day-long course April 23; *Advanced DBase III*, a day-long course March 26; *Reading Skills Workshop*, a day-long course March 26; *Explorations in Eastern Mysticism*, 10 Thursdays beginning March 31; *No Longer Tomorrow*, six Tuesdays beginning April 5. Information is now available on *The Soviet Union Today: A Tour*, beginning mid-August, and on *The Gardens of England: A Tour*, beginning May 14. For more information on these and other courses, contact Continuing Education, Ext. 3956 or 3957.

## Pennsylvania choir

The Pennsylvania State University Concert Choir will present a concert April 10 at 7:30 p.m. in Harcourt United Church, Dean Avenue, Guelph. The program will include works by *Palestrina*, *Verdi*, *Bruckner* and *Bernstein*. Tickets are \$4 for students and seniors, \$5 regular and \$10 for families, and are available at the church office or at the door.

## Winnipeg homecoming

The University of Winnipeg Alumni Association is planning a homecoming, "Celebration '88" in recognition of the 100th anniversary of Wesley College and the 50th anniversary of United College. All graduates are invited to the event May 12-14. Activities include a dinner-dance, field trip, film presentation and personal tours. For more information, call Anne Bawden, director of alumni affairs, at 204-786-9872 or 786-9122.

## Visitors' accommodation

Visitors to the campus may take advantage of low overnight accommodation rates from April 22 to August 20. Rates are \$18 single per night, plus provincial sales tax, and \$25 double per night, plus provincial sales tax. Accommodation includes bed linen, soap, towels, parking, 24-hour desk coverage, shared washroom facilities. For further information, call Ext. 3045.

## Sticks and Stones

The Department of Drama will stage James Reaney's *Sticks and Stones* as its last offering of the Inner Stage season. The play is a tapestry of games, poetry, music, comedy and melodrama, dealing with the massacre of the Black Donnellys. Using sticks, stones and ladders, the cast of 13 create a world of imagination to bring life to the tragedy of betrayal and intolerance. *Sticks and Stones* plays at the Inner Stage theatre, MacKinnon building, March 28 to April 2 at 8 p.m. Tickets are \$4 Monday through Wednesday and \$5 Thursday through Saturday, and may be purchased at the Bookshelf Cafe or the UC box office. For credit card orders, call Ext. 3940.

## Researching pigs

The 1988 Swine Research Day, sponsored by the University and the Ontario Ministry of Agriculture and Food, will be held April 7 from 9:30 a.m. to 4 p.m. Topics include economics of Canadian federal swine research, performance of pigs raised under microwave heat, genetic evaluation of pigs. Registration is \$10 and must be submitted by March 30. For more information, contact Prof. Stan Young, co-ordinator of agricultural extension, Ext. 3933.

## Wildlife art show

The Niska Wildlife Foundation will hold a wildlife art show and sale at Kortright Waterford Park, 305 Niska Rd., Guelph, from April 8 to 10. Sale items include framed and unframed limited edition prints by Bateman, Parker, Seery-Lester and Romance. Hours of operation are 10 a.m. to 9 p.m. April 8 and 9, and 10 a.m. to 5 p.m. April 10. For more information, call 824-6729.

## Monte Carlo night

The International Association of Students of Economics and Commerce is hosting L'Affaire de Monte Carlo March 25 at 7:30 p.m. at the Cutten Club. The evening features dancing and gambling with funny money, which may be used to bid on auctioned items. Tickets for the evening are \$15 and include \$100 in funny money. Tickets may be purchased at the door or by calling Ext. 8196.

## Health and safety

The Guelph Occupational Health and Safety Resource Centre, located in the basement at 5 Douglas Street, downtown Guelph, has government publications on health and safety issues, and more information that may be of interest to Human Kinetics students doing ergonomics projects and to Toxicology and Chemistry students studying workplace hazards. The centre is open Fridays from 1 p.m. to 5 p.m.

## United Way planning

The 17th annual meeting of the United Way Social Planning Council will be held March 24 at 7:30 p.m. at the Cutten Club. Guest speaker Amy Cousineau's talk is entitled "Into the Nineties: Strategic Issues for the United Way Social Planning Council." A membership fee of \$5 is payable at the door. RSVP at 821-0571.

## Cleveland Duo

Since making their debut in Cleveland in 1980, the Cleveland Duo have made their mark in the professional chamber music circuit. On March 31, they will be performing in Room 107, MacKinnon building, at the Thursday noon-hour concert. Their repertoire includes duos and duo concert for violin-piano, two violins and violin-violas. Carolyn Gadiel Warner, a native of Winnipeg, holds bachelor's and master's degrees in performance from the University of Toronto in piano and violin respectively. Stephen Warner is a graduate of the Curtis Institute of Music, where he studied violin and chamber music. Program I at 12:10 p.m. consists of Sonata in F major for Two Violins by Antonio Vivaldi; Program II at 1:10 p.m. will feature Duo for Violin and Piano by Oskar Morawetz and Sonata, Op. 30 no. 2 in C minor by Ludwig van Beethoven.

## Gryphon '88

The University Centre presents Gryphon '88, a gaming convention March 26 and 27. The convention will feature a number of simultaneous tournaments for various board and role-playing games, as well as displays of new games, open gaming, novice workshops and a collectibles fair featuring games and games dealers. Tournaments will be held for Dungeons and Dragons, Traveller, Miniatures, Battletech, Supremacy, Rail Baron, Civilization, Third Reich, Car Wars, Wooden Ships and Iron Men, Ogre Demolition and Talisman. Pre-registration is \$18 for both days, or \$10 for one day only. Registration on the days of the event is \$20 or \$12 for one day only. For information, call Dennis Somerton at Ext. 8181.

## Shirt sale

The Wild Bird Clinic is holding a T-shirt sale March 23 and 24 at noon in the OVC coffee shop, and from 10 a.m. to 3 p.m. in the University Centre courtyard. Cost is \$12 for each shirt. All proceeds to the Wild Bird Clinic.

## Chinese acrobats

The Black Dragon River Acrobats will be performing at Toronto's Massey Hall May 15 at 2 p.m. Many U of G faculty and staff who have participated in the Black Dragon River Consortium or the Beijing Agricultural University project will be interested in seeing the acrobats in their first North American tour. A block of seats will be reserved in the first balcony beside the stage for interested Guelph residents. For further information, call Richard Buck at Ext. 8700 or 836-6946 after hours, or contact Massey Hall at 416-593-4828. Ticket prices range from \$17 to \$21.50. O

## Social science dinner

Senator Lorna Marsden will speak March 24 at the College of Social Science Alumni Association's (CSSAA) annual dinner at 6 p.m. at The Arboretum. Marsden is a professor of Sociology at the University of Toronto, and will speak on "The Social Scientist in the State: The Case for Open Boundaries." Tickets are \$25 for association members; \$30 for non-members. The CSS student government will reimburse \$20 to the first 75 students who apply. Order forms are available at the CSS student government office, Room 245, University Centre. For more information, call the Alumni Affairs and Development office, Ext. 6657, or Prof. Victor Ujimoto, Sociology and Anthropology, Ext. 3912.

## Computing purchases

The Computing Services purchase plan is offering Zenith Data Systems personal computers at a special price until the end of March. Zenith 286 PC with two 3.5-inch floppy disk drives will be sold for \$2,140 base price. With the purchase of a 286 PC, Computing Services will provide a Z149A/P screen at no charge or a ZCMI390 screen for \$399. Zenith laptop with two 3.5-inch floppy disks plus MSDOS will be sold for \$1,890 base price. Other prices include Zenith EAZY PC1 with one 3.5-inch disk drive for \$749; EAZY PC2 with two 3.5-inch disk drives for \$879; EAZY PC3 with one 3.5-inch disk drive and a 20-meg hard disk for \$1,249. Each EAZY machine includes MS DOS, MS Manager, and GW Basic. For more information, call Ext. 6572, Monday through Thursday from 10 a.m. to 1 p.m.

## Maple syrup days

The Arboretum interpretive program features maple syrup days every weekend until April 9-10, from 9:30 a.m. to 3:30 p.m.

## Arts network

The Guelph Arts Council will hold a networking evening for the literary arts March 23 at 7:30 p.m. at the Guelph Arts Council and Resource Centre, 10 Carden St. All writers, both amateur and professional, are invited to attend. For more information, call Sally Wismer at 836-3280.

## Trail club

Members of the Guelph Trail Club are polishing up their hiking boots and getting ready for spring. In April, the club is planning hikes and a canoe trip on the Speed River. A New Members Night is planned for March 31 at 7:30 p.m. at Edward Johnson Public School, Stevenson Street. For more details, call Jack Wilkinson at 822-3423 or David Hull, Ext. 2298.

## Brass Taps concerts

The Brass Taps Noon Series is featuring three noon-hour concerts including The Koinonia Blues Connection March 23, The Alley Scats March 30, and the Judith Marcuse Dance Company. All concerts will be at noon in the University Centre courtyard. Admission is free.

## ROLMPHONE training

Training sessions for the use of ROLMPHONES are being offered by Communications Services March 24 and 25 in Room 221, Blackwood Hall. Included in the sessions are training in transfer, connect and flash. For more information on refresher or training sessions, call Ext. 3299.

## Assault awareness

Sexual Assault Awareness Week continues this week with various displays, films and skits. See "Coming Events" for details. The week is sponsored by a grant from the Ontario Women's Directorate.

## Senate Continued from page 2.

per-cent increase in admissions. There is a difference. We haven't any admissions yet, and we won't know if we will have any increases in enrolment until targets are set." He also said the University doesn't know yet if there will be any additional money from government this year for increased enrolment.

MacDonald noted that the University is at capacity in all except two of its programs and has been limiting enrolment in the B.Sc., BA, B.Comm. and B.A.Sc. programs for a number of years. "Last year, because we had more students say 'yes' to us than we had anticipated, we brought in a few more, which taxed our resources even further," he said. The University faces a dilemma this year, he said. In order to bring enrolment back up to where it was anticipated before the decline in applications to the B.Sc. (Agr.) program, the University is going to have to take in more students, "but we don't know where we are going to put them." If the University is going to capture a larger fraction of the government's accessibility fund, it is going to have to make some tough decisions about bringing in more students than it can accommodate in classrooms during the day, and with regular faculty, he said. "We could not assume for this budget that we would be able to bring in many more students than we had last year," he said.

Matthews said he hoped that the second edition of the University's planning document would be ready for the June meeting of Senate. The budget and the planning document are two very important documents for the future of the University, and they will help to ensure that all of us "face up" to the tough questions about that future, he said.

In other business, Senate received for information a report on the International Conference on Ethical Choices in the Age of Technology (see accompanying story) and approved an executive committee on the disposition of recommendations from the *Report of the ad hoc Committee on University/Community Interaction*. It outlined who is responsible for acting on each of the 49 recommendations contained in the report.

In Board of Undergraduate Studies business, Senate approved membership changes to the Board of Undergraduate Studies and the Board of Graduate Studies, and approved that the prerequisite statement for certain 400-level courses, meeting the stated guidelines, may include a requirement of a 70-per-cent cumulative average in the subject area of the courses. The guidelines are:

- The course must require a reasonable degree

of independent scholarship, research, or practice;

- The course must be substantially dependent upon a one-to-one tutorial relationship between student and instructor;
- The course not be a required, or core, course in a degree program or sub-program;
- The cumulative average of 70 per cent will normally be interpreted as having been obtained in all the courses constituting the area of specialization in which the student is registered, and with which the course is concerned is associated; and
- The program committees will ensure that this prerequisite provision is not used in so many courses that a student having a cumulative average less than 70 per cent has difficulty in finding enough courses to complete the program concerned.

Senate also approved a Board of Graduate Studies (BGS) proposal for a new D.V.Sc. field, laboratory animal science, in the Department of Pathology's graduate program. The program will provide training and experience for veterinarians who will be involved in the care and utilization of laboratory animals in education and research.

Senate also received for information a BGS report on additions to graduate and associated graduate faculty:

*Provisional graduate faculty* — D. Evans, Molecular Biology and Genetics;

*Graduate faculty* — H. Bertrand, Microbiology and Immunology;

*Temporary graduate faculty* — J. Gibson, Animal and Poultry Science and M. Walker, research associate, U of G.

*Associated graduate faculty (with term)* — R.L. Bernier, C-I-L Research Centre, Mississauga/Crop Science; R.B. Bryan, department of geography, University of Toronto/School of Engineering; L. Erickson, Allex Inc., Mississauga/Crop Science; J. O'Brien, National Cancer Institute, Maryland/Pathology; Y. Kotake, South Western Ontario ENDOR Faculty, U of G/Chemistry and Biochemistry; V. Poysa, research associate, U of G; and P.C. Williams, consultant, International Development Research Centre/Animal and Poultry Science; *Associate graduate faculty (without term)* — R.I. Buzzell, Agriculture Canada Research Station, Harrow/Crop Science; C. Chong, OMAF, Horticultural Research Institute of Ontario, Vineland/Horticultural Science; M.E. Reith, University of Toronto/Crop Science; J.A. Stone, Agriculture Canada, Harrow/Land Resource Science; and H. Voldeng, Agriculture Canada, Ottawa/Crop Science.

A COU report was also presented. O



# Coming events

## WEDNESDAY, March 23

**Sexual Assault Awareness Week** - display case, 10 a.m. to 3 p.m., courtyard, UC. Film, "Why Men Rape," 8 p.m., East Residence.

**Wild Bird Clinic T-shirt Sale** - 12 noon, OVC coffee shop and 10 a.m. to 3 p.m., courtyard, UC. \$12, proceeds to the Wild Bird Clinic.

**Training Sessions** - ROLMphone Refresher, 8:45 to 10 a.m., 10:15 to 11:30 a.m., 1 to 2:15 p.m. and 2:30 to 3:45 p.m., Blackwood Hall 211, register at Ext. 3299.

**Drama** - *Blitzkrieg*, noon, Massey Hall, \$1.

**Gerontology Seminar** - "Health Service Utilization in Old Age," Laurel Strain, 12:10 p.m., UC 429.

**Worship** - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.

**Biochemistry Seminar** - "Solute Effects on Mitochondrial Metabolism," James Ballantyne, 12:10 p.m., MacNaughton 222.

**Botany Seminar** - "Structure and Expression of Pathogenesis-Related Genes," J.T. Boll, 3 p.m., Botany/Genetics/Zoology 117.

**Film** - "Jesus Christ Superstar," 8 p.m., Land Resource Science 124, \$2.

**Brass Taps Noon Series** - The Koinonia Blues Connection, noon, courtyard, UC.

## THURSDAY, March 24

**Sexual Assault Awareness Week** - Akido presentation, 4 p.m. to 5 p.m., wrestling room, A.C. Feminist frequency, CFRU, "Date Rape," 5:30 p.m. Observation of Akido class in progress, 7:30 p.m. to 9:30 p.m., Place: TBA.

**Board of Governors** - 9:30 a.m., boardroom, level 4, UC.

**Wild Bird Clinic T-shirt Sale** - 12 noon, OVC coffee shop and 10 a.m. to 3 p.m., courtyard, UC. \$12, proceeds to the Wild Bird Clinic.

**Training Sessions** - ROLMphone refresher, 8:45 to 10 a.m., 10:15 to 11:30 a.m., 1 to 2:15 p.m. and 2:30 to 3:45 p.m., Blackwood Hall 211, register at Ext. 3299.

**Board of Governors** - Meeting, 9:30 a.m., Boardroom, UC Level 5.

**Pathology Seminar** - "Actinobacillus pleuropneumoniae Pneumonia in Swine," M. Brash, 11:10 a.m., Pathology 220.

**Drama** - *Blitzkrieg*, noon, Massey Hall, \$1.

**Worship** - Meet and Eat, Prof. Bruce Holub, Nutritional Sciences, "The Ethics of Food Production and Marketing," noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.

**Concert** - Peter Vinograd, piano, 12:10 and 1:10 p.m., MacKinnon 107.

**Dinner** - College of Social Science Alumni Association, guest speaker Senator Lorna Marsden, 6 p.m., \$25 for members, \$30 for non-members, RSVP by March 18 to Ext. 6657.

**Annual meeting** - United Way Social Planning Council, 7:30 p.m., Cullen Club.

## FRIDAY, March 25

**Sexual Assault Awareness Week** - display table, 10 a.m. to 3 p.m., courtyard, UC. Skits on sexual assault, "Why Me?" and discussion, 12 noon to 1:30 p.m., courtyard, UC. Coffee house, 8 p.m., UC103.

**Training Sessions** - ROLMphone Refresher, 8:45 to 10 a.m., 10:15 to 11:30 a.m., 1 to 2:15 p.m. and 2:30 to 3:45 p.m.; PhoneMail, 10:15 to 11:30 a.m., Blackwood Hall 211, register at Ext. 3299.

**Worship** - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.

**Monte Carlo Night** - L'Affaire de Monte Carlo, sponsored by AIESEC Guelph, 7:30 p.m., Cullen Club.

**Calcium Club** - "Ca-Ryanodine Receptor Purification," Brian Brown, "General Laboratory Safety," Janice Gray, 11:50 a.m., Pathology 144.

**Current Issues in Agriculture** - "Sense and Nonsense in Crop Growth Modelling," Tice Tollenaar, 3:10 p.m., Crop Science 121.

**Pathogenesis Seminar** - "Structure and Expression of Pathogenesis-Related Genes," Dr. J.T. Bole, department of biochemistry, University of Leiden, 3 p.m., BG&Z117.

**Humanities Association** - "The Social Impact of Computers," Tom Carey, 8 p.m., MacKinnon 107, members and students free, non-members \$4.

## SATURDAY, March 26

**Conference** - The Scottish-Canadian Connection, 9:45 a.m. to 3 p.m., MacKinnon 117A.

**Maple Syrup Days** - continues to March 27 and April 2-3 and 9-10, The Arboretum Nature Centre.

**Gryphon '88** - Gaming convention, 10 a.m. to 2 p.m., and 3 p.m. to 7 p.m., University Centre.

**Worship** - Muslim Students' Association Lectures on Islam, 6 p.m., Chapel, UC Level 5.

**Children's Concert** - Romper Room and Friends, 1 and 3 p.m., War Memorial Hall, \$6.50.

**Dinner Theatre** - Theatre in the Trees, *Key for Two*, 6 p.m., The Arboretum Centre, \$25.50. (Sold out)

## SUNDAY, March 27

**Fair** - Guelph Collectibles Fair, 11 a.m. to 5 p.m., PCH, UC.

**Worship** - Palm Sunday Ecumenical Service, 9:30 a.m.; Ecumenical Holy Communion and Roman Catholic Mass, 10:30 a.m.; Brunch, 11:30 a.m., War Memorial Hall.

**Brunch Theatre** - Theatre in the Trees, *Key for Two*, 12:30 p.m., The Arboretum Centre, \$25.50. (Cancelled)

**International Cinema** - "Man of Iron," (Poland), 8 p.m., MacNaughton 105, \$2.

**Gryphon '88** - Gaming convention, 10 a.m. to 1 p.m., and 2 p.m. to 5 p.m., UC.

## MONDAY, March 28

**Theatre** - "Sticks and Stones (The Donellys)" Part I, 8 p.m., Inner Stage Theatre, MacKinnon 101. Continues March 29, 30, 31 and April 1 and 2.

**Our World** - "Efforts to Regenerate Vegetation in the Sahel," 12:10 p.m., UC 441.

**Engineering Graduate Seminar** - "Bunker Silo Research," Qiqiu Zhao, 3:10 p.m., Engineering 112A.

**Music Lecture** - "Faure and the Bal Sans Raison d'Etre," Ed Phillips, 4:15 p.m., MacKinnon 107.

**Worship** - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, March 29

**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.

**Land Resource Science Seminar** - "Soil Displacements Associated with Seasonal Frost Penetration in an Agricultural Field," Ed Perfect, 2:10 p.m., Land Resource Science 124.

**Physics Colloquium** - "KrF Lasers and Fusion Research," Allan Offenberger, 4 p.m., MacNaughton 113.

## WEDNESDAY, March 30

**Worship** - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.

**Biochemistry Seminar** - "Purine Metabolism in *Arabidopsis thaliana*," Barbara Moffat, 12:10 p.m., MacNaughton 222.

**Botany Seminar** - "The Use and Significance of Enclosures in the Evaluation of the Ecotoxicology of Pesticides," Keith Solomon, 3 p.m., Botany/Genetics/Zoology 117.

**Film** - "The Mission," 8 p.m., Land Resource Science 124, \$2.

**Brass Taps Noon Series** - The Alley Cats, 12 noon, courtyard, UC.

**Community meeting** - Meet Dr. Norm Gibbins, candidate for the position of associate vice-president, academic, 10 a.m., UC103.

## THURSDAY, March 31

**Pathology Seminar** - "Steroid-responsive Meningoencephalitis in the Dog: A Clinical and Pathological Study," E. Scott, 11:10 a.m., Pathology 220.

**Worship** - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.

**Concert** - The Cleveland Duo, 12:10 and 1:10 p.m., MacKinnon 107.

**PSA Film Series** - "The Secretary and Her Boss, Part II: We Can Work It Out," 12:10 and 1:10 p.m., UC 441.

**Brass Taps Noon Series** - Judith Marcuse Dance Company, 12 noon, courtyard, UC.

## FRIDAY, April 1

**Schedule of Dates** - Good Friday, no classes scheduled.

**Worship** - Ecumenical Good Friday Service, 3 p.m., Peter Clark Hall; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332.

## SATURDAY, April 2

**Worship** - Muslim Students' Association Lectures on Islam, 6 p.m., Chapel, UC Level 5.

## SUNDAY, April 3

**Worship** - Easter Sunday, Roman Catholic Mass, 10 a.m., Peter Clark Hall; Ecumenical Holy Communion, 10:30 a.m., UC 103.

## MONDAY, April 4

**Our World** - "Chemical Agriculture and Sustainability - Are Production-Oriented Agricultural Practices Ecologically Sound?", 12:10 p.m., UC 441.

**Engineering Graduate Seminar** - "Sediment Transport in Shallow Overland Flow," Brian Guy, 3:10 p.m., Engineering 112A.

**Music Lecture** - "Debussy's Use of Register as a Medium of Structure," Richard Parks, 4:15 p.m., MacKinnon 107.

**Worship** - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, April 5

**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.

**Physics Colloquium** - Dr. R.T. Watson, chief, upper atmosphere research program, National Aeronautics and Space Administration. Topic: TBA, 4 p.m., MacNaughton 113. (Cancelled)

**Worship** - "Deer Farming in New Zealand. Meat and Antler Production," Dr. James Suttie, 7 p.m., A&P 141.

**Continuing Education** - "No Longer Together" course begins.

**Community meeting** - Meet Dr. Ernest Dalrymple-Alford, candidate for the position of associate vice-president, academic, 3 p.m., UC103.

## WEDNESDAY, April 6

**Gerontology Seminar** - Dr. John Bond, University of Manitoba, 12:10 p.m., UC 429.

**Worship** - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.

## THURSDAY, April 7

**Swine Research Day** - 9:30 a.m. to 4 p.m., Canadian Legion, 919 York Road. **Concert** - The Meister Singers, 12:10 p.m., MacKinnon 107.

**Worship** - Meet and Eat, noon to 2 p.m., UC 335; The Spirituality of Relationships, Sexuality and Marriage, 4:10 p.m., UC 334; Fellowship Brown Bag Supper, 5 p.m., Mature Students' Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC level 5; Catholic Social Evening, 6 to 9 p.m., UC 334.

**Seminar** - "Photoperiodic Regulation of LH and its Role in the Deer Antler Cycle," Dr. James Suttie, 4 p.m. A&P 306.

## FRIDAY, April 8

**Worship** - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Muslim Students' Association, Jumaa'h Prayer, 12:30 p.m., UC 332; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.

**Calcium Club** - Ca-Trouble Shooting Jam Session, Peter O'Brien, 11:50 a.m., Pathology 144.

**Student Recital** - Sandra Allanson, Laurie Shaw, voice recital, 7:30 p.m., MacKinnon 107.

## SATURDAY, April 9

**Worship** - Muslim Students' Association, Lectures on Islam, 6 p.m., Chapel, UC Level 5.

## SUNDAY, April 10

**Worship** - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 10:30 a.m., UC 103.

## MONDAY, April 11

**Worship** - Roman Catholic Mass, 5:10 p.m., Chapel, UC Level 5.

## TUESDAY, April 12

**Worship** - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry Into Catholicism, 4:10 p.m., UC 334.

4 p.m., MacNaughton 113.

## WEDNESDAY, April 13

**Worship** - Ecumenical Holy Communion, 12:10 p.m., UC Level 5.

## Annual collectibles fair March 27

The Guelph Collectibles Fair, sponsored by the University Centre, will feature over 100 tables of wares from the world of sports, records, movie posters, comics and games March 27.

Sports dealers will display, sell and trade baseball, hockey and football cards, coins, photos and bats. Collectible records from yesterday and today will be available, as will be items from the world of comics. Games such as "Fortress," "Supremacy" and a new game called "Brain Strain" will be displayed alongside various dealers of games and miniatures. Movie and recording star posters will also be on sale.

D.C. Comics artist, T.V. Templeton, will be among the featured guests. Known for his original *Sgt. S. Inferno*, and his artwork for issues of *Superman*, *Elongated Man* and *Blue Devil*, he will begin next month on artwork for *Justice League International*. Currently he is illustrating the latest book by his father, author and broadcaster Charles Templeton.

Sports guests at the fair will include Gary Dornhoefer and Brad Smith. Dornhoefer is an ex-Philadelphia Flyer and two-time Stanley Cup Winner, as well as a television commentator on hockey broadcasts, and Brad Smith is a Toronto Maple Leaf forward, now recuperating from an injury.

Admission to the fair, 11 a.m. to 5 p.m. in Peter Clark Hall of the University Centre, is \$3 for members of the general public; \$2 for students and seniors. For further information, contact Wayne Hepburn, Ext. 2894, O.

## Brandt visits



Andy Brandt, elected leader of the Ontario Progressive Conservative Party in 1987, succeeding Larry Grossman, was on campus March 8 to get a first-hand look at technology at U of G. He was guest lecturer for an international trade class given in the Department of Economics this semester by visiting assistant professor Merwan Engineer of Queen's University. Brandt talked to the class about the Canada-U.S. free trade agreement. He also toured U of G's extensive research and technology facilities and viewed first-hand the scientific advances being made at the University. The theme of the tour, conducted by Dr. Larry Milligan, dean of research, was "Developing Research, Getting It to Market and Involving the Public."



## Conference on Scottish-Canadian connection

A Scottish Studies conference on "The Scottish-Canadian Connection" will be held on campus March 26, chaired by Prof. Ted Cowan, History, and sponsored by the dean of Graduate Studies.

At the morning sessions, Dr. John Simpson of the University of Edinburgh will speak on "Scotland in the Age of Emigration", and Prof. Tom Devine of the University of Strathclyde will address "The Impact of the Great Potatoe Famine (1845) upon Scottish Emigration to Canada and Australia."

The afternoon program includes Prof. Gil Stelter, History, who will speak on "Scottish Entrepreneurs in South Western Ontario." This will be followed by a film, "The Castle of White Otter Lake," and a reception in the Graduate Studies Lounge, level 5, University Centre.

Registration is \$10 at the door, \$6 for students and free to students.

The library will hold a book sale of Scottish duplicate copies in Room 132 of the MacKinnon building from 9 a.m. to 10:15 p.m. and during the lunch break. For details on the book sale, contact Tim Sauer, Ext. 3422.

Everyone is welcome to attend. For conference details, contact Cowan at Ext. 3226. O

## Person sought for instructional development

Applications are invited for the position of co-ordinator of instructional development. The position is open to present members of faculty, and will be of interest to those established in their disciplines and interested in exploring and applying the principles of teaching and learning. The co-ordinator will plan and co-ordinate activities in educational development in consultation with academic colleagues interested in improving teaching and learning within the University. Opportunities will exist to pursue instructional research and development.

The appointment is for a three-year period beginning May 1, or as soon as possible thereafter. The incumbent will be on 40 per cent secondment to the Office of Educational Practice and will report to the director. Administrative leave at the end of the term is provided.

Letters of application or nominations and requests for further information should be directed to the chair of the search committee, Dr. Ernest Dalyrmple-Alford, acting associate vice-president, academic, from whom copies of the position description may be obtained. Applications should be received by April 4. O

## Job opportunities

As of *At Guelph* deadline March 18, 1988, the following opportunities were available: **Special Constable**, Police Division. Salary: \$25,361 start rate.

**Building Mechanic II**, Maintenance Department; three positions. Job rate: \$12.79 per hour; probation rate: \$.20 per hour lower than job rate.

**Financial Officer**, Animal and Poultry Science. Normal hiring range: \$26,000 to \$30,550 (subject to review).

*The following positions were available to on-campus employees only:*

**Secretary II**, Dean's Office, OAC. Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

**Custodian 3**, Housekeeping Department; three positions. Job rate: \$10.75 per hour; probation rate: \$.20 per hour lower than job rate.

**Anesthesia/Intensive Care Technician**, Veterinary Teaching Hospital; two positions. Salary range: \$353.20 minimum; \$408.07 job rate (level 5); \$506.70 maximum.

**Agricultural Assistant**, Veterinary Teaching Hospital; shift 1. Salary range: \$418.38 start rate; \$439.26 six-month rate; \$460.07 one-year rate.

**Driver/Helper**, Mail Services. Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

**Payroll Clerk**, Food Services. Salary range: \$303.42 minimum; \$350.66 job rate (level 5); \$436.76 maximum.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.

## Personals

**For Sale:** White bathroom vanity, white toilet, gold broadloom, 12' by 16' and 8'6" by 11'6", white desk and chair, 23 sheets of plate glass, Ext. 2435 or 821-2524. Three-bedroom semi-detached, Kortright area, \$110,000, immediate possession, leave message at 763-5506. Coffee maker, Sunbeam mixmaster (new), Royal blue drapes, inside door, child bike carrier, 822-3129. Furniture, 763-6830. English saddle, 18-inch Marshall all-purpose, excellent condition, Anne, Ext. 4029 or 763-7059 after 8 p.m. Living room drapes 20' x 103" and dining room patio drapes 113' x 94", beige pattern thermal; three-piece bathroom tub, toilet, sink and counter, Ext. 3044. Pioneer 3-motor, 3-head reel-to-reel tape deck, 8347, days or 856-9377, evenings. Visions cookware - 3-piece set of pots and pans, skillet and Dutch oven, humidifier, 3-piece antique reproduction mahogany coffee and end tables, 2468 or 836-4038. 1979 Monte Carlo, 821-7574. 50 12-ft cedar rails, \$125 each or \$175 delivered, 763-5418 after 6 p.m. 12' by 20' used gold broadloom, 822-5458 after 5 p.m.

**Wanted:** Garden to rent from April to September, Rene, 763-3474 after 5 p.m. Older wooden desk, maximum width 30 inches, and a highchair, preferably Fisher Price, 821-9401 after 5 p.m. Mini-

poodle, 822-6070. Swiss-French boy, 14, seeks boy, same age, for July, 1989, exchange, for ski or summer holiday in Switzerland, 821-2133. Two-bedroom apartment for two female third-semester students as of Sept. 1 within walking distance of campus, 3864. White dress for 25th anniversary mock wedding ceremony, 658-9938 after 6 p.m. Adjustable slant board and small equipment for exercising PEC muscles, 2468 or 836-4038.

**Available:** Typing, word-processing, data entry, 824-2426.

"Personals" is a free service offered by *At Guelph* for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to *At Guelph* one week before publication. O

## Grad News

The final oral examination of Christine L. Forber, Chemistry and Biochemistry, a candidate for the Doctor of Philosophy degree, is March 24, 2 p.m. in Room 233 of the MacKinnon building. The thesis is "The Energetics and Structures of Ortho-Alkylated C<sub>11</sub>s- and Trans-Azobenzenes." Forber's supervisor is Dr. Mike Zerner. O

Postage paid in cash at first-class rates, Permit 1149, Guelph, Ontario N1G 2W1.